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Product datasheet for CF501660

Adenylate kinase 5 (AK5) Mouse Monoclonal Antibody [Clone ID: OTI2F9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2F9
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human AK5 (NP_777283) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	63.2 kDa
Gene Name:	adenylate kinase 5
Database Link:	NP_777283 Entrez Gene 229949 MouseEntrez Gene 26289 Human Q9Y6K8

View online »

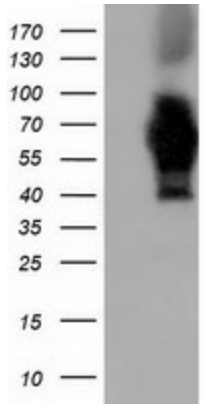
Background: This gene encodes a member of the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the UMP/CMP kinase of several species. It is located in the cytosol and expressed exclusively in brain. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

Synonyms: AK6

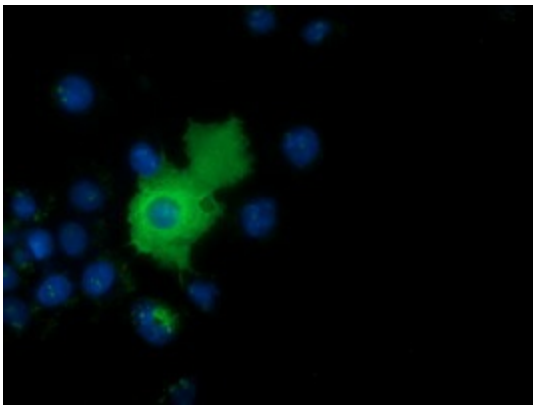
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

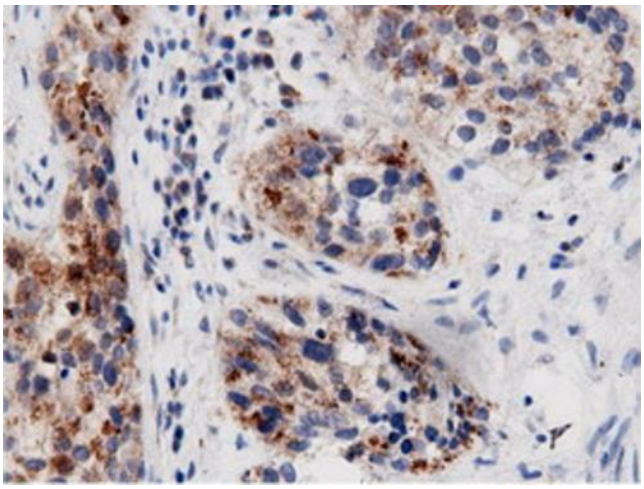
Product images:



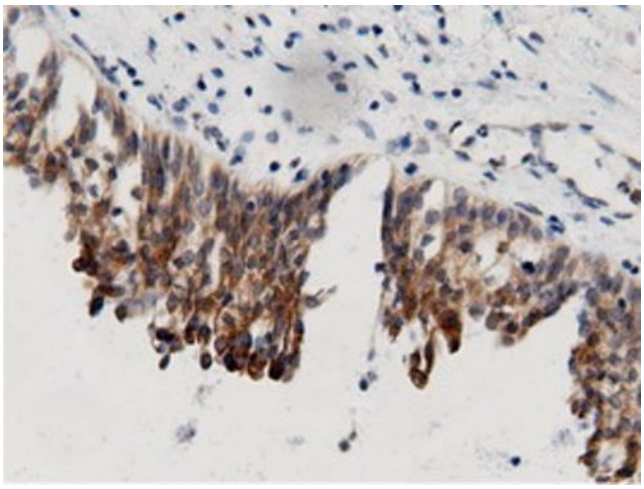
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY AK5 (Cat# [RC222241], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AK5(Cat# [TA501660]). Positive lysates [LY403569] (100ug) and [LC403569] (20ug) can be purchased separately from OriGene.



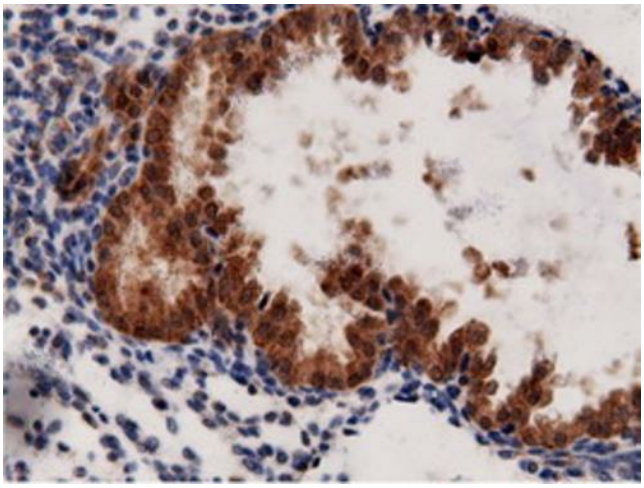
Anti-AK5 mouse monoclonal antibody ([TA501660]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY AK5 ([RC222241]).



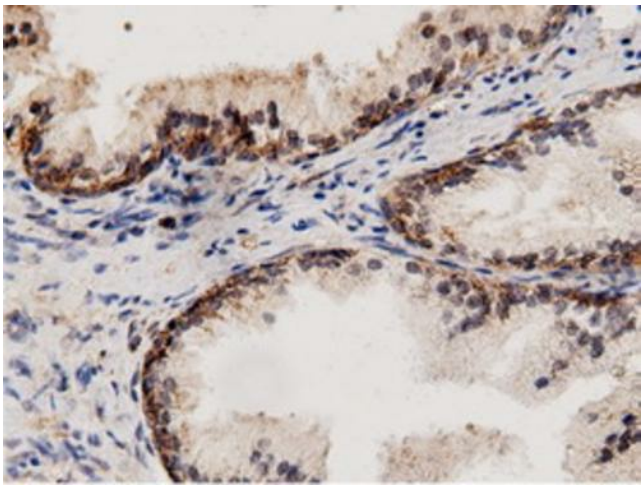
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



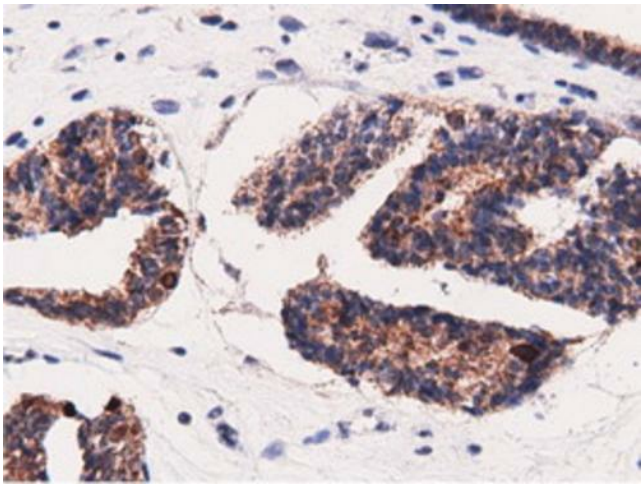
Immunohistochemical staining of paraffin-embedded Human bladder tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



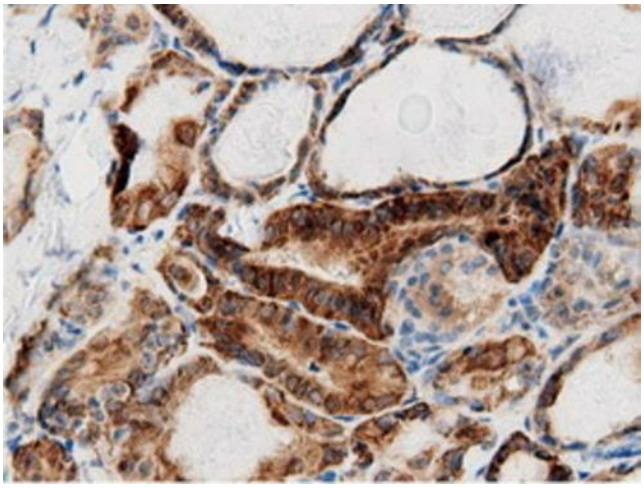
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



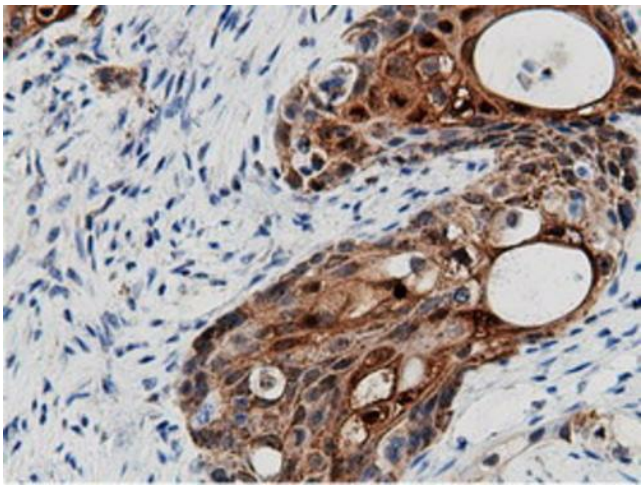
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



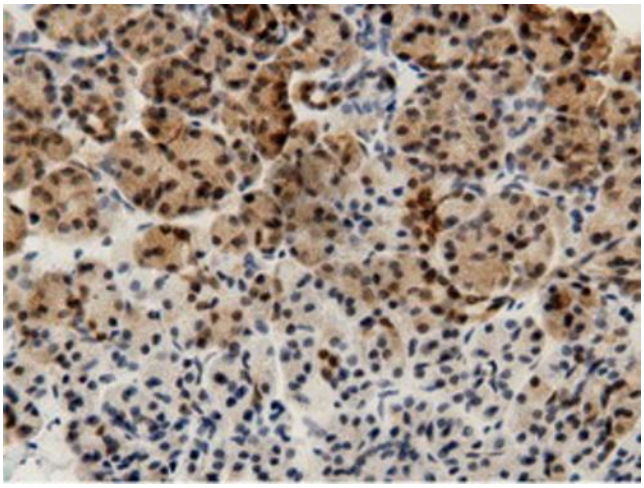
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



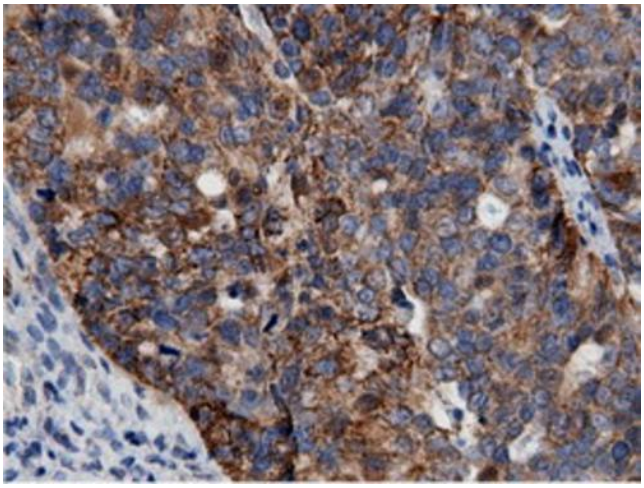
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



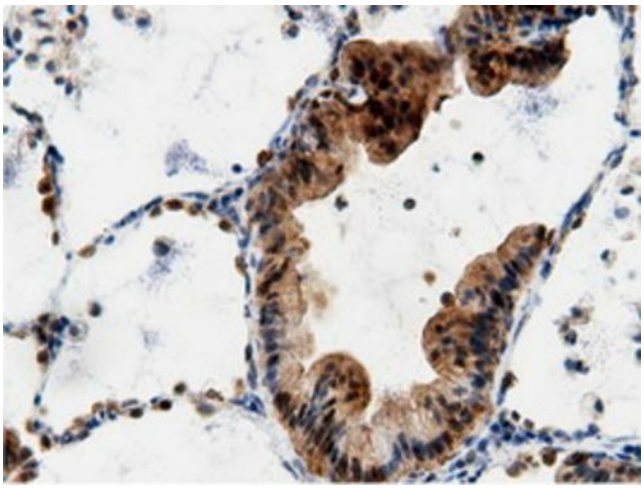
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



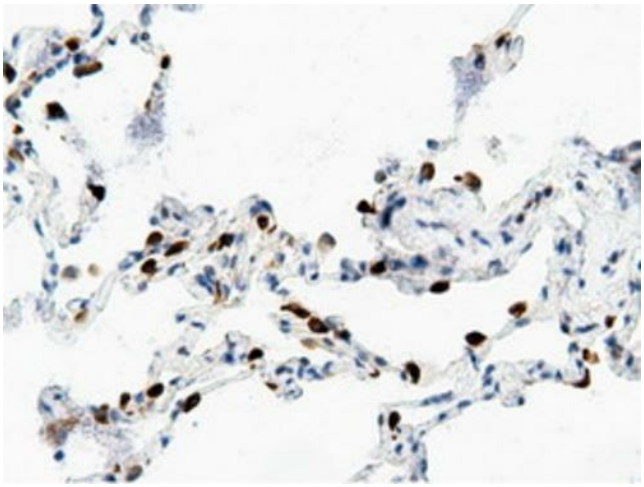
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



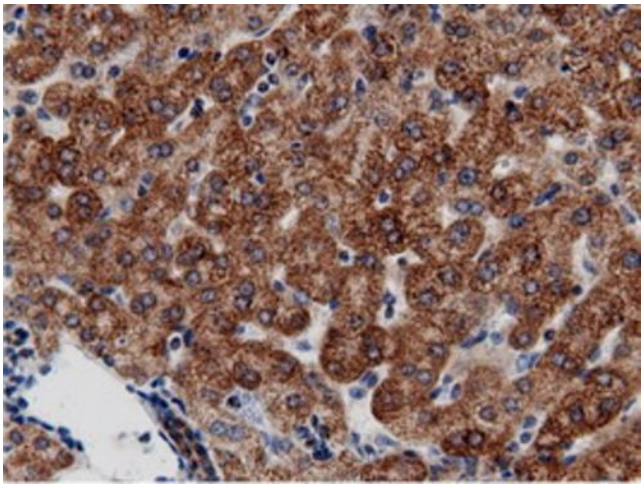
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



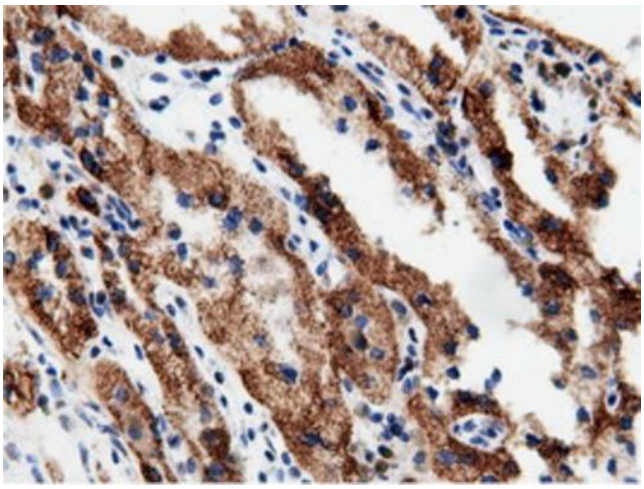
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



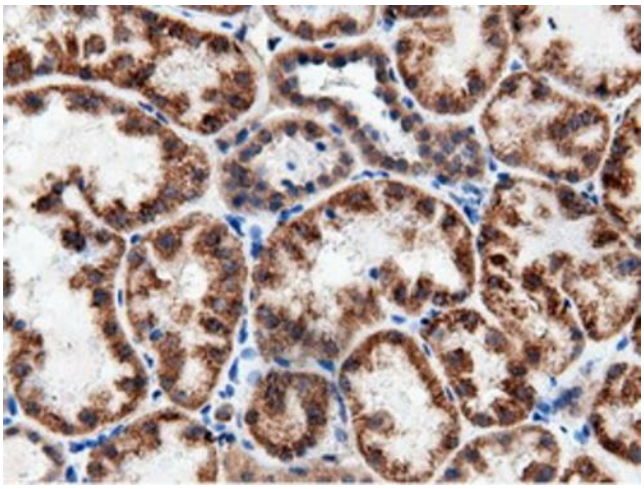
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



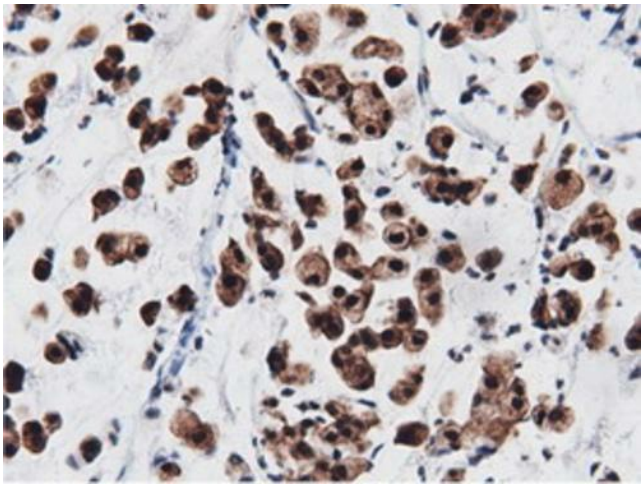
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



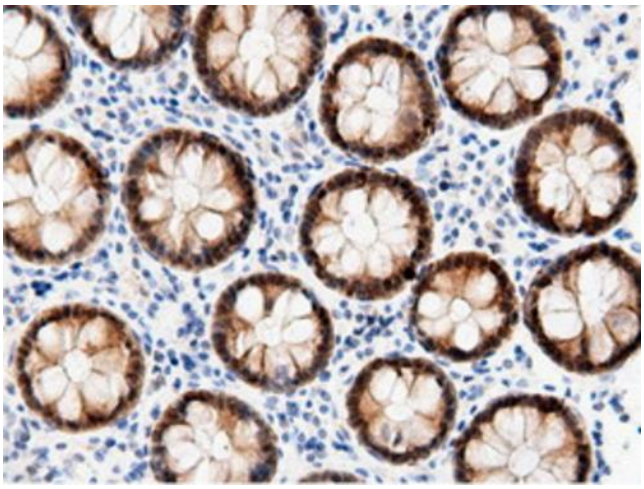
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



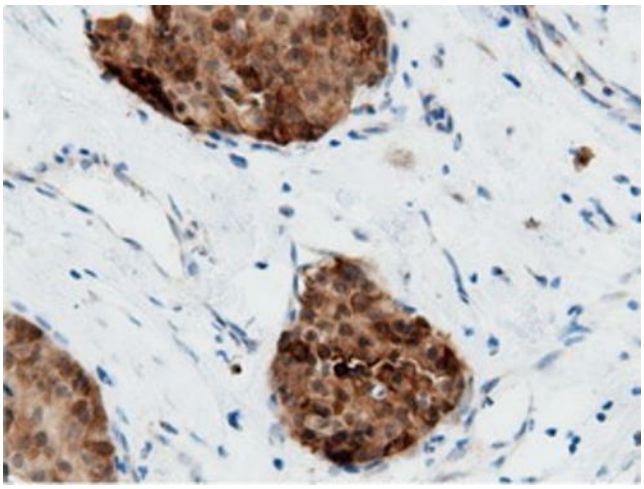
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



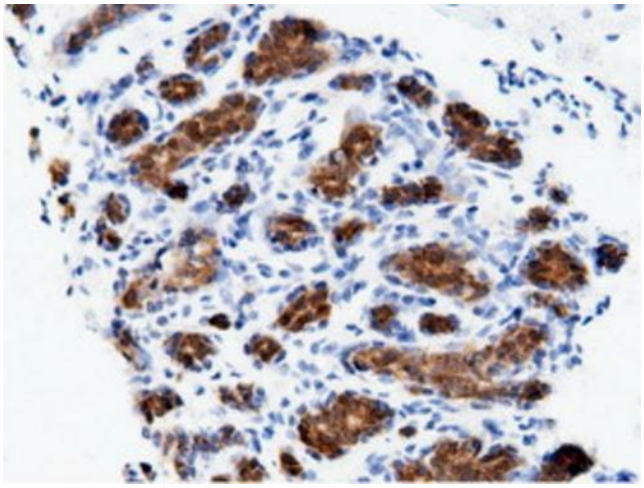
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



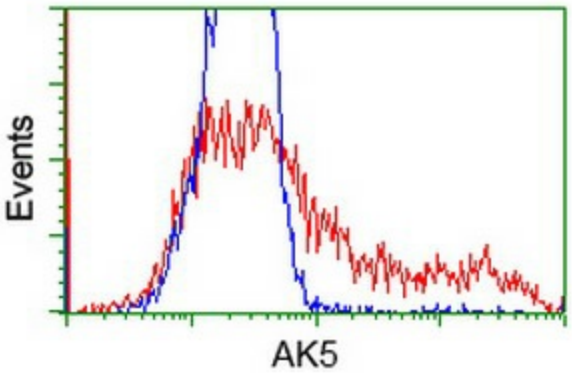
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



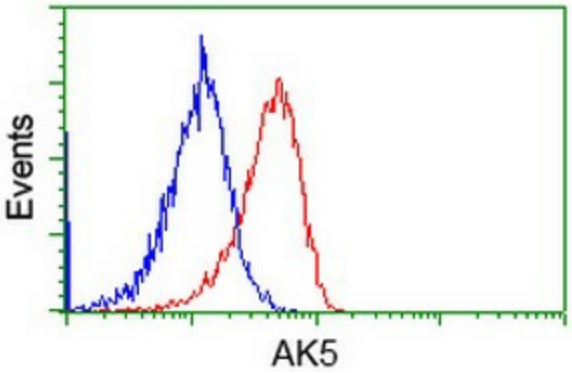
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



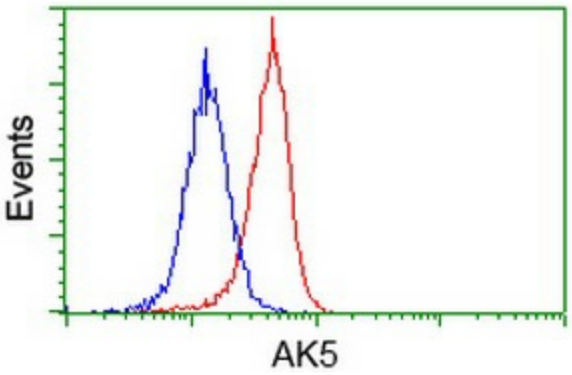
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-AK5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501660])



HEK293T cells transfected with either [RC222241] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-AK5 antibody ([TA501660]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-AK5 antibody ([TA501660]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Hela cells, using anti-AK5 antibody ([TA501660]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).