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Product datasheet for CF504507

CD10 (MME) Mouse Monoclonal Antibody [Clone ID: OTI3D11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3D11
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human MME(NP_009218) 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:	85.3 kDa
Gene Name:	membrane metalloendopeptidase
Database Link:	NP_009218 Entrez Gene 17380 MouseEntrez Gene 24590 RatEntrez Gene 4311 Human P08473

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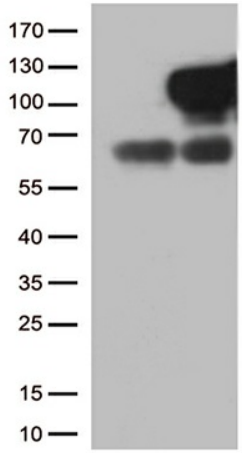
Background: This gene encodes a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). This protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. It is a glycoprotein that is particularly abundant in kidney, where it is present on the brush border of proximal tubules and on glomerular epithelium. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. This gene, which encodes a 100-kD type II transmembrane glycoprotein, exists in a single copy of greater than 45 kb. The 5' untranslated region of this gene is alternatively spliced, resulting in four separate mRNA transcripts. The coding region is not affected by alternative splicing. [provided by RefSeq]

Synonyms: CALLA; CD10; CMT2T; NEP; SCA43; SFE

Protein Families: Druggable Genome, Protease, Transmembrane

Protein Pathways: Alzheimer's disease, Hematopoietic cell lineage, Renin-angiotensin system

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MME (Cat# [RC223013], 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-MME (Cat# [TA504507])(1:500).

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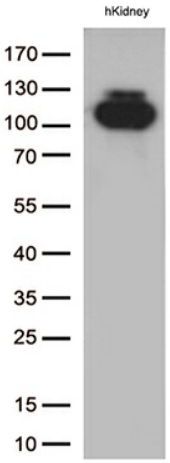
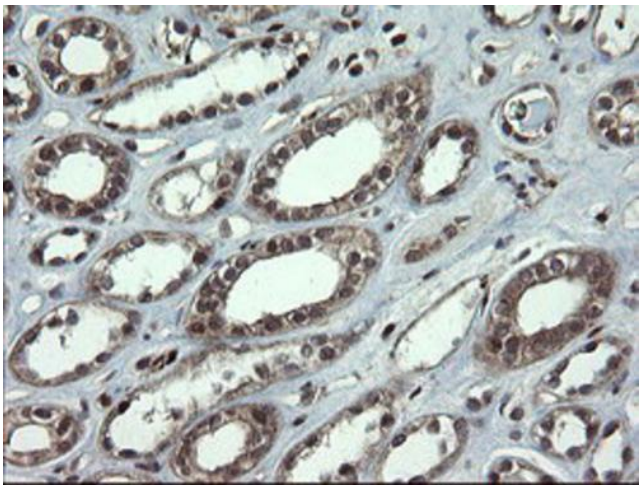
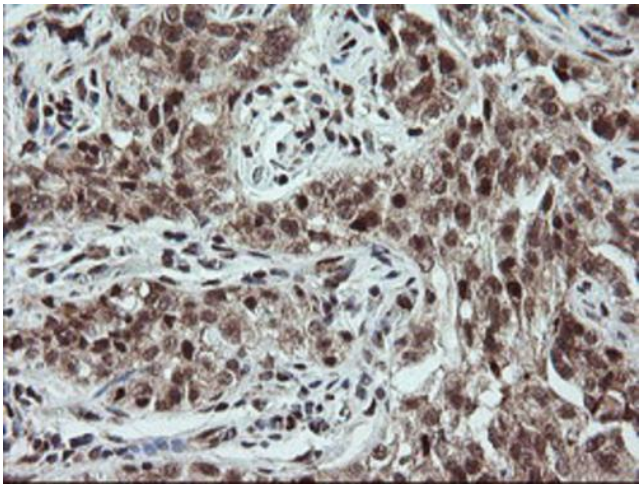


Western blot analysis of extracts (35ug) from 1 tissue lysate by using anti-MME monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])

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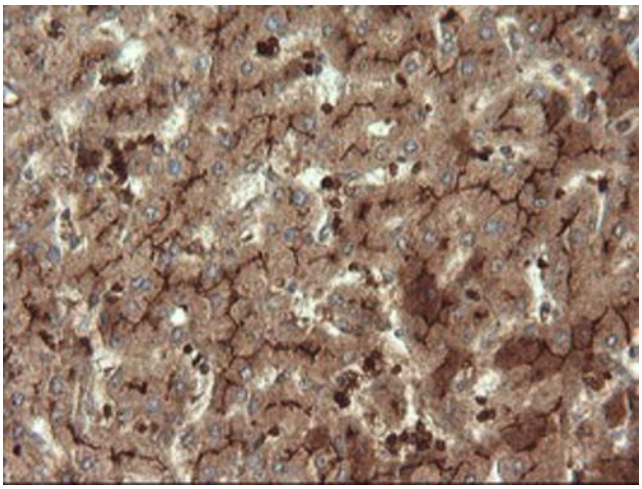
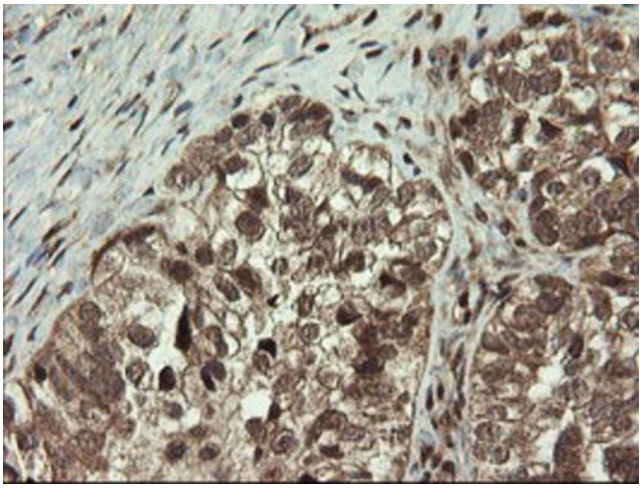
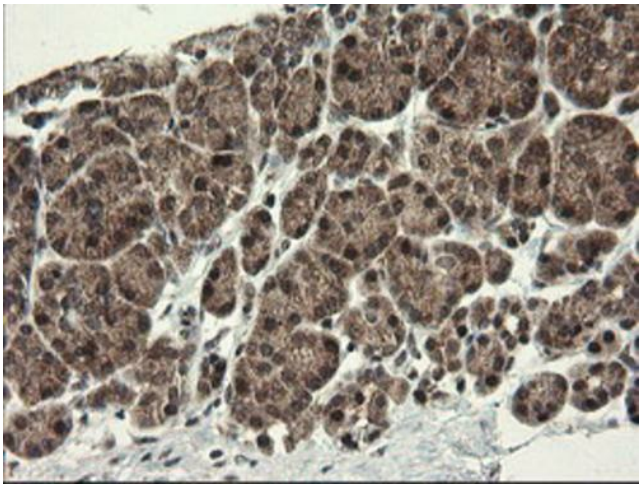


Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])

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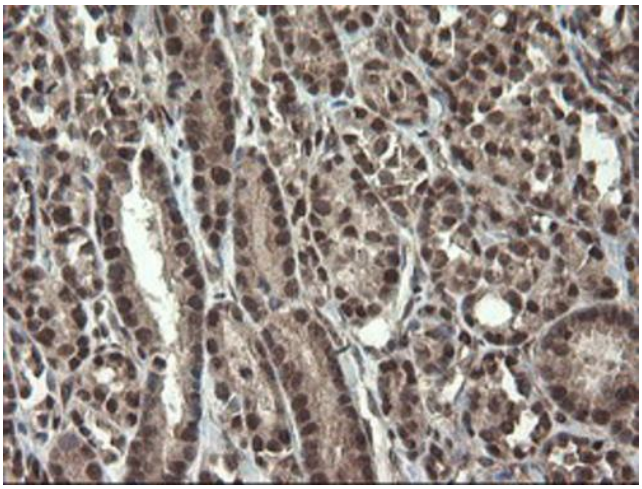
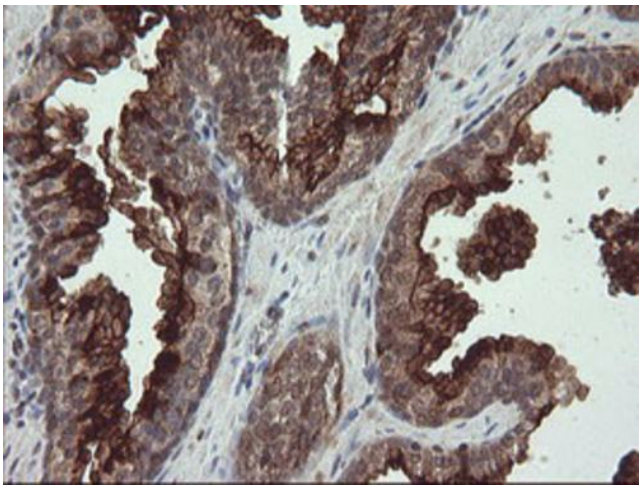
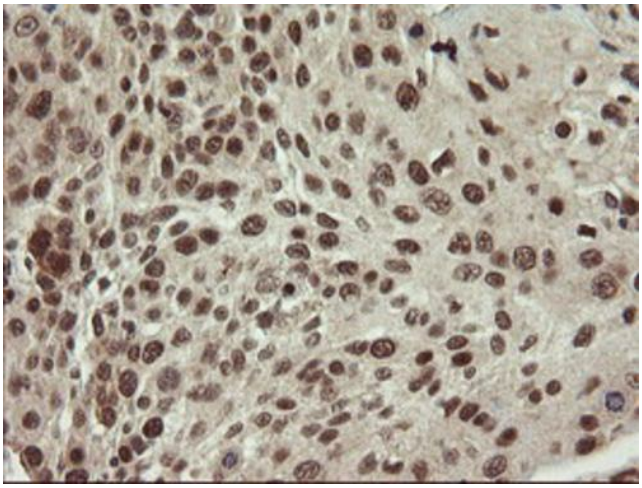


Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])

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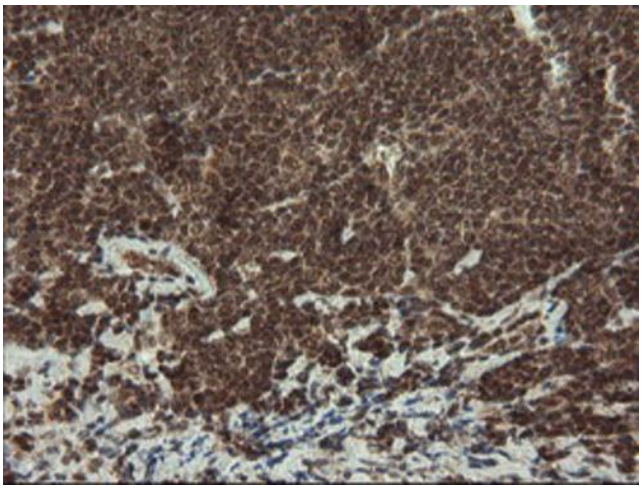
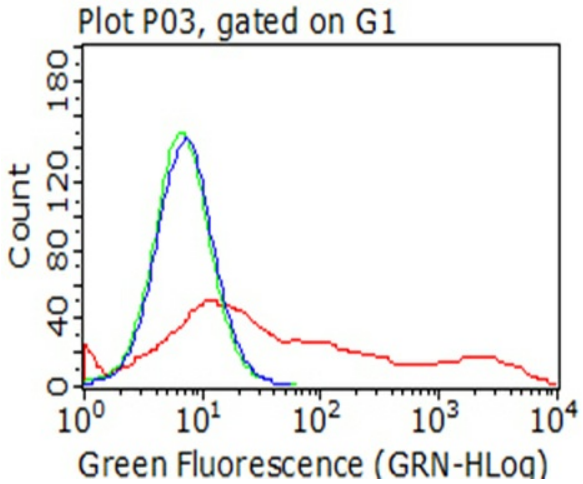


Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-MME mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504507])



Flow cytometric analysis of living 293T cells transfected with MME overexpression plasmid ([RC223013]), Red)/empty vector ([PS100001], Blue) using anti-MME antibody ([TA504507]). Cells incubated with a non-specific antibody (Green) were used as isotype control (1:100).

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