

Product datasheet for **TA323811**

Haptoglobin (HP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human brain gliomas tissue IHC: 25-100 Positive control: Human lung cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 162-406 amino acids of human haptoglobin
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	haptoglobin
Database Link:	NP_001119574 Entrez Gene 15439 Mouse Entrez Gene 24464 Rat Entrez Gene 3240 Human P00738



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Background:

This gene encodes a preproprotein; which is processed to yield both alpha and beta chains; which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin; which allows degradative enzymes to gain access to the hemoglobin; while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy; the incidence of coronary artery disease in type 1 diabetes; Crohn's disease; inflammatory disease behavior; primary sclerosing cholangitis; susceptibility to idiopathic Parkinson's disease; and a reduced incidence of Plasmodium falciparum malaria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene.

Synonyms:

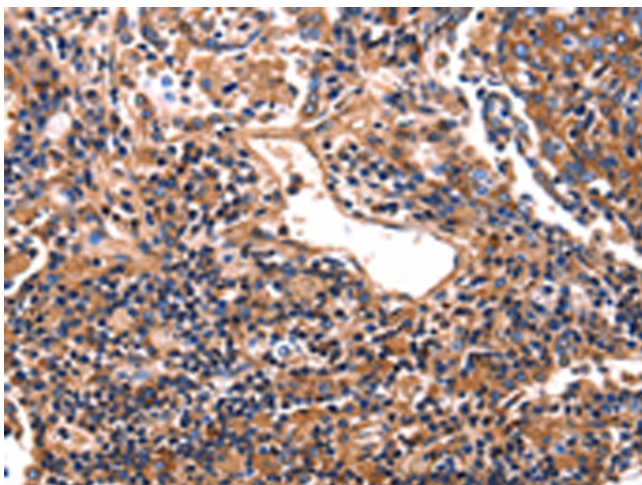
BP; HP2ALPHA2; HPA1S

Protein Families:

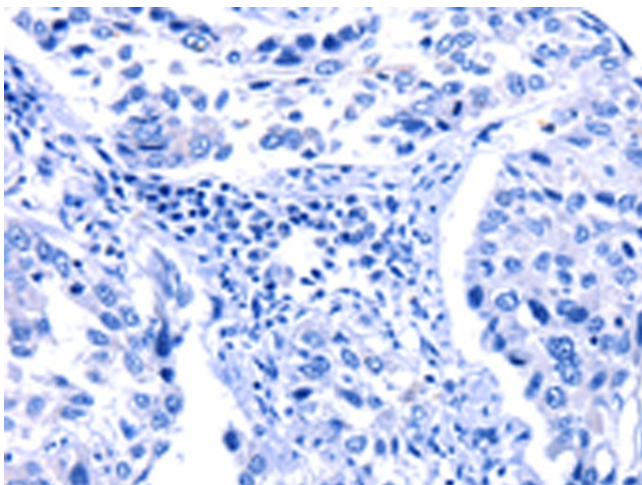
Druggable Genome, Protease, Secreted Protein, Transmembrane

Product images:

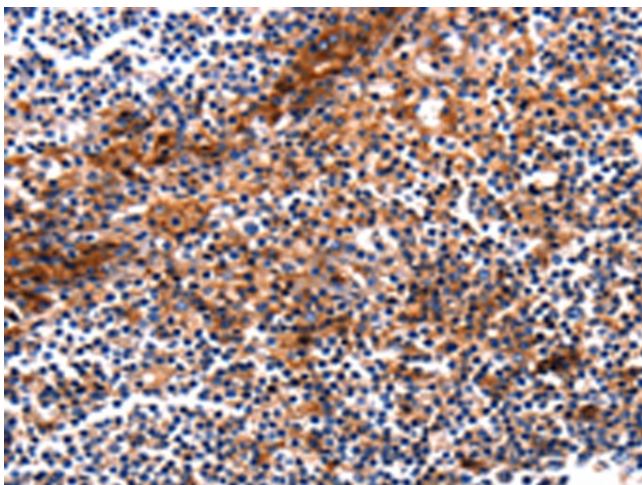
Gel: 10%SDS-PAGE
Lysate: 30 µg
Lane: Human brain glioma tissue
Primary antibody: TA323811 (HP Antibody) at dilution 1/400
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 5 seconds



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA323811 (HP Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA323811 (HP Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA323811 (HP Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA323811 (HP Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: $\times 200$)