

Rabbit HGD Polyclonal Antibody | anti-HGD antibody

Anti-HGD Picoband Antibody

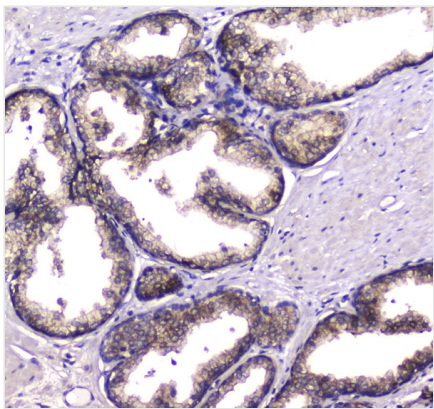
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124675	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

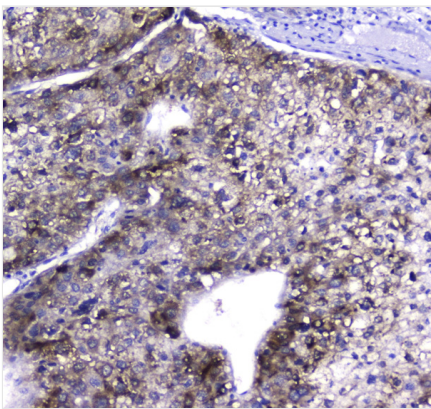
HGD; Polyclonal Antibody; Anti-HGD Picoband Antibody; Homogentisate 1; 2-dioxygenase; Homogentisate oxygenase; Homogentisic acid oxidase; Homogentisicase; HGO; anti-HGD antibody

PRODUCT SPECIFICATIONS

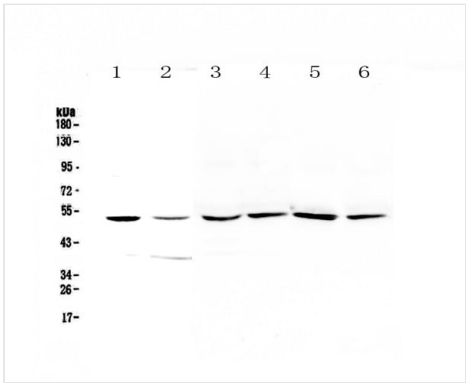
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	445
Applicable Applications for anti-HGD antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human HGD recombinant protein (Position: D374-N445).
Tissue Specificity	Highest expression in the prostate, small intestine, colon, kidney and liver.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of HGD using anti-HGD antibody (AAA124675).HGD was detected in paraffin-embedded section of human prostatic cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HGD Antibody (AAA124675) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of HGD using anti-HGD antibody (AAA124675).HGD was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HGD Antibody (AAA124675) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of HGD using anti-HGD antibody (AAA124675).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: human A549 whole cell lysates,Lane 3: rat liver tissue lysates,Lane 4: rat kidney tissue lysates,Lane 5: mouse liver tissue lysates,Lane 6: mouse kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HGD antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HGD at approximately 50KD. The expected band size for HGD is at 50KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HGD antibody	The HGD gene encodes homogentisate 1,2-dioxygenase (HGD), an enzyme involved in the catabolism of phenylalanine and tyrosine. This enzyme is involved in the catabolism of the amino acids tyrosine and phenylalanine. Mutations in this gene are the cause of the autosomal recessive metabolism disorder alkaptonuria. This gene is mapped to chromosome 3q21-q23 by a preliminary PCR screen of hamster/human somatic cell hybrid genomic DNA samples and by fluorescence in situ hybridization.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115527117
NCBI GeneID	3081
NCBI Accession #	NP_000178.2
NCBI GenBank Nucleotide #	NM_000187.3
UniProt Accession #	Q93099; A8K417; B2R8Z0
Molecular Weight	49,964 Da
NCBI Official Full Name	homogentisate 1,2-dioxygenase
NCBI Official Synonym Full Names	homogentisate 1,2-dioxygenase
NCBI Official Symbol	HGD
NCBI Official Synonym Symbols	AKU; HGO
NCBI Protein Information	homogentisate 1,2-dioxygenase
UniProt Protein Name	Homogentisate 1,2-dioxygenase
UniProt Gene Name	HGD
UniProt Synonym Gene Names	HGO

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/hgd-antibody-western-blot-immunohistochemistry-elisa/124675>