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Datasheet for ABIN5693116 anti-HGD antibody (AA 374-445)

3 Images



Overview

Quantity:	100 µg
Target:	HGD
Binding Specificity:	AA 374-445
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HGD antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human HGD recombinant protein (Position: D374-N445).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for HGD detection. Tested with WB, IHC-P, Direct ELISA in Human,Mouse,Rat.

Target Details

Target:	HGD
Alternative Name:	HGD (HGD Products)
Background:	Synonyms: Homogentisate 1,2-dioxygenase, Homogentisate oxygenase, Homogentisic acid

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	oxidase, Homogentisicase, HGD, HGO
	Tissue Specificity: Highest expression in the prostate, small intestine, colon, kidney and liver.
	Background: 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.
UniProt:	Q93099
Application Details	
Application Notes:	Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG
	(ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit
	(SV0002-1) for IHC(P).
	Application Details: Western blot,0.1-0.5 µg/mL
	Immunohistochemistry(Paraffin-embedded Section),0.5-1 µg/mL
	Direct ELISA,0.1-0.5 µg/mL
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na $_2$ HPO $_4$, 0.05 mg NaN $_3$.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing
	and thawing.

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Images

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kUa 180 - 130 -						
95 -						
72 -						
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Western Blotting

Image 1. Western blot analysis of HGD using anti-HGD antibody. 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 (Catalog #) at 0.5 µg/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HGD at approximately 50KD. The expected band size for HGD is at 50KD.

Immunohistochemistry

Image 2. IHC analysis of HGD using anti-HGD antibody . 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 2µg/ml rabbit anti-HGD Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



Immunohistochemistry

Image 3. IHC analysis of HGD using anti-HGD antibody . 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 2µg/ml rabbit anti-HGD Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.