

HGD Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56013

Specification

HGD Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW
Physical State

Q93099
Rat
Rabbit
Polyclonal
S0 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human HGD

Epitope Specificity 351-445/445 Isotype IgG

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SIMILARITY Belongs to the homogentisate dioxygenase

family.

DISEASE Alkaptonuria (AKU) [MIM:203500]: An

autosomal recessive error of metabolism characterized by an increase in the level of

homogentisic acid. The clinical

manifestations are urine that turns dark on

standing and alkalinization, black

ochronotic pigmentation of cartilage and collagenous tissues, and spine arthritis. Note=The disease is caused by mutations affecting the gene represented in this

entry.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

HGD is a 445 amino acid protein that belongs to the homogentisate dioxygenase family and is involved in the pathway of amino acid degradation. Expressed at high levels in kidney, colon, liver, prostate and small intestine, HGD uses iron as a cofactor to catalyze the oxygen-dependent conversion of homogentisate to 4-maleylacetoacetate, a reaction that is the fourth step in the creation of L-phenylalanine from fumarate and acetoacetic acid. Defects in the gene encoding HGD are the cause of alkaptonuria (AKU), an autosomal recessive disorder that is characterized by urine that turns dark on standing and alkalinization, black ochronotic pigmentation of cartilage and collagenous tissues and spine arthritis.

HGD Polyclonal Antibody - Additional Information



Gene ID 3081

Other Names

Homogentisate 1, 2-dioxygenase, 1.13.11.5, Homogentisate oxygenase, Homogentisic acid oxidase, Homogentisicase, HGD, HGO

Target/Specificity

Highest expression in the prostate, small intestine, colon, kidney and liver.

Dilution

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
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Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

HGD Polyclonal Antibody - Protein Information

Name HGD

Synonyms HGO

Function

Catalyzes the conversion of homogentisate to maleylacetoacetate.

Tissue Location

Highest expression in the prostate, small intestine, colon, kidney and liver

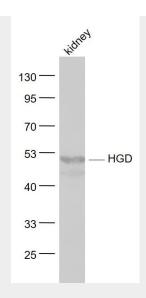
HGD Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HGD Polyclonal Antibody - Images





Sample:

Kidney (Mouse) Lysate at 40 ug

Primary: Anti- HGD (bs-15472R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD Observed band size: 50 kD