SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HGD antibody

Catalog Number: SL15472R

FOR RESEARCH USE ONLY

[DATASHEET]

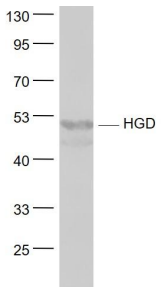
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HGD
Immunogen:	KLH conjugated synthetic peptide derived from human HGD: 351-445/445
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Rabbit)
Predicted MW.:	50kDa
Subcellular Location:	cytoplasmic
Background:	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. **Tissue Specificity:** Highest expression in the prostate, small intestine, colon, kidney and liver. 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

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	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. **Similarity:** Belongs to the homogentisate dioxygenase family. **Database links:** **Entrez Gene:** 3081 Human Omim: 607474 Human **SwissProt:** Q93099 Human **Unigene:** 368254 Human

[VALIDATION IMAGES]



Sample:
Kidney (Mouse) Lysate at 40 ug
Primary: Anti- HGD (SL15472R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 50 kD
Observed band size: 50 kD

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