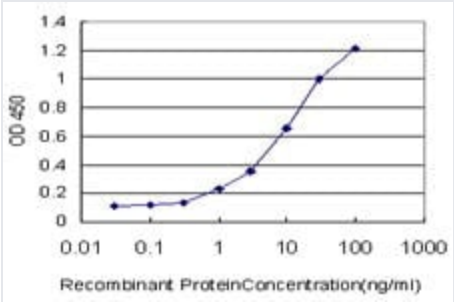
HGD Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HGD, Monoclonal Antibody
Full Product Name	HGD (Homogentisate 1,2-dioxygenase, AKU, FLJ94126, Homogentisate Oxygenase, Homogentisic Acid Oxidase, HGO, Homogentisicase) (AP)
Product Gene Name	anti-HGD antibody
Product Synonym Names	HGD
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3G4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HGD.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	50kDa
OMIM	203500
3D Structure	ModBase 3D Structure for Q93099
Immunogen	Partial recombinant corresponding to aa377-445 from human HGD (NP_000178) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	CFEKASKVKLAPERIADGTMAFMFESSLSLAVTKWGLKASRCLDENYHKCWEPLKSHFTPNSRNPAEPN
Conjugate	AP
Product Categories/Family for anti-HGD antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-HGD antibody	ELISA (EIA)
Application Notes for anti-HGD antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HGD antibody	Homogentisate 1,2-dioxygenase (HGD) gene mutations are the molecular cause of alkaptonuria, a rare hereditary disorder of the phenylalanine catabolism.
Other Notes	Small volumes of anti-HGD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HGD purchase	MBS6131663 is an antibody targeting HGD. Also known as HGD (Homogentisate 1,2-dioxygenase, AKU, FLJ94126, Homogentisate Oxygenase, Homogentisic Acid Oxidase, HGO, Homogentisicase) (AP). Reactive in Human. Host: Mouse.



Testing Data of anti-HGD antibody
Detection limit for recombinant GST tagged HGD is ~0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HGD. It may not necessarily be applicable to this product.

NCBI GI #	115527117
NCBI GeneID	3081
NCBI Accession #	NP_000178
UniProt Primary Accession #	Q93099
UniProt Related Accession #	Q93099
GenBank Nucleotide #	NM_000187
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
UniProt Protein Name	Homogentisate 1,2-dioxygenase
UniProt Synonym Protein Names	Homogentisate oxygenase; Homogentisic acid oxidase; Homogentisicase
Protein Family	2-(hydroxymethyl)glutarate dehydrogenase
UniProt Gene Name	HGD
UniProt Synonym Gene Names	HGO
UniProt Entry Name	HGD_HUMAN
NCBI Protein Information	homogentisate 1,2-dioxygenase
NCBI Summary for HGD	This gene encodes the enzyme homogentisate 1,2 dioxygenase. 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.[provided by RefSeq, May 2010]
Research Articles on HGD	**1.** Twelve novel HGD gene variants have been identified in 99 alkaptonuria patients affecting the bones.
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