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HGD Antibody (monoclonal) (M10)

Mouse monoclonal antibody raised against a partial recombinant HGD.
Catalog # AT2362a

Product Information

Application	IF, E
Primary Accession	Q93099
Other Accession	NM_000187
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3G4
Calculated MW	49964

Additional Information

Gene ID	3081
Other Names	Homogentisate 1, 2-dioxygenase, Homogentisate oxygenase, Homogentisic acid oxidase, Homogentisicase, HGD, HGO
Target/Specificity	HGD (NP_000178, 377 a.a. ~ 445 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HGD Antibody (monoclonal) (M10) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

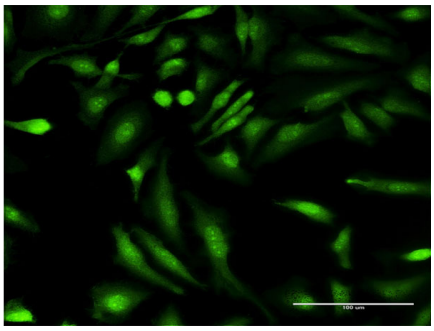
This gene encodes the enzyme homogentisate 1,2 dioxygenase. This enzyme is involved in the catabolism of the amino acids tyrosine and phenylalanine. Mutations in this gene are the cause of the autosomal recessive metabolism disorder alkaptonuria.

References

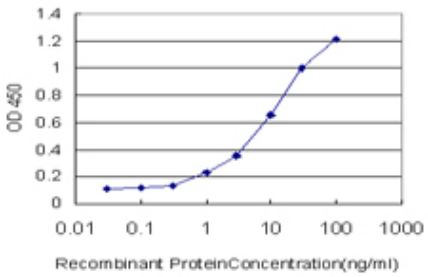
Alkaptonuria Introne WJ, et al. , 1993. PMID 20301627.Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926.Mutation spectrum of homogentisic acid oxidase (HGD) in alkaptonuria. Vilboux T, et al. Hum

Mutat, 2009 Dec. PMID 19862842.R58fs mutation in the HGD gene in a family with alkaptonuria in the UAE. Abdulrazzaq YM, et al. Ann Hum Genet, 2009 Jan. PMID 18945288.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

Images



Immunofluorescence of monoclonal antibody to HGD on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged HGD is approximately 0.3ng/ml as a capture antibody.