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HPD Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant HPD.
Catalog # AT2433a

Specification

HPD Antibody (monoclonal) (M07) - Product Information

Application	**WB, E**
Primary Accession	P32754
Other Accession	NM_002150
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**44934**

HPD Antibody (monoclonal) (M07) - Additional Information

Gene ID 3242

Other Names
4-hydroxyphenylpyruvate dioxygenase, 4-hydroxyphenylpyruvic acid oxidase, 4HPPD, HPD, HPPDase, HPD, PPD

Target/Specificity
HPD (NP_002141.1, 160 a.a. ~ 269 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
HPD Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

HPD Antibody (monoclonal) (M07) - Protocols

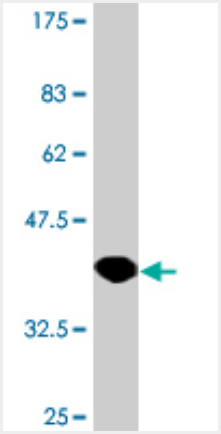
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

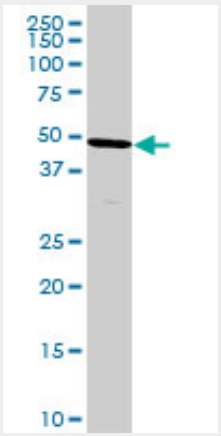
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

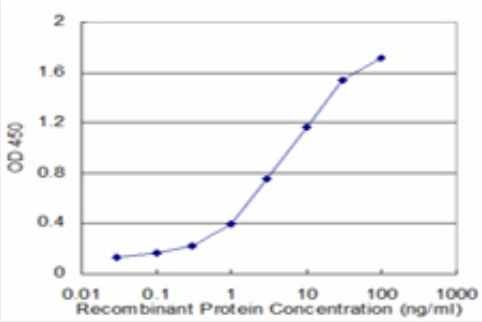
HPD Antibody (monoclonal) (M07) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



HPD monoclonal antibody (M07), clone 2F3. Western Blot analysis of HPD expression in HeLa ((Cat # AT2433a)



Detection limit for recombinant GST tagged HPD is approximately 0.1ng/ml as a capture antibody.

HPD Antibody (monoclonal) (M07) - Background

The protein encoded by this gene is an enzyme in the catabolic pathway of tyrosine. The encoded protein catalyzes the conversion of 4-hydroxyphenylpyruvate to homogentisate. Defects in this gene are a cause of tyrosinemia type 3 (TYRO3) and hawkinsinuria (HAWK). Two transcript variants encoding different isoforms have been found for this gene.

HPD Antibody (monoclonal) (M07) - References

Manifestation of hawkinsinuria in a patient compound heterozygous for hawkinsinuria and tyrosinemia III. Item CB, et al. Mol Genet Metab, 2007 Aug. PMID 17560158.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Expressed sequence tag analysis of adult human lens for the NEIBank Project: over 2000 non-redundant transcripts, novel genes and splice variants. Wistow G, et al. Mol Vis, 2002 Jun 15. PMID 12107413.