

**HPD Antibody (monoclonal) (M07)**  
**Mouse monoclonal antibody raised against a partial recombinant HPD.**  
**Catalog # AT2433a**

## Specification

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### HPD Antibody (monoclonal) (M07) - Product Information

Application	WB, E
Primary Accession	<a href="#">P32754</a>
Other Accession	<a href="#">NM_002150</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	44964

### 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

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**

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

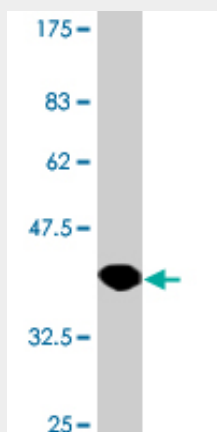
### HPD Antibody (monoclonal) (M07) - Protocols

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

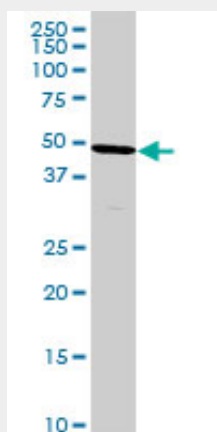
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

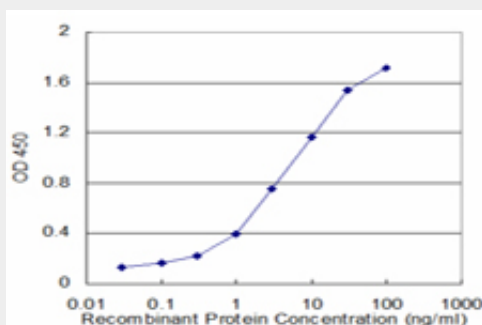
## HPD Antibody (monoclonal) (M07) - Images



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 NEI Bank Project: over 2000 non-redundant transcripts, novel genes and splice variants. Wistow G, et al. Mol Vis, 2002 Jun 15. PMID 12107413.