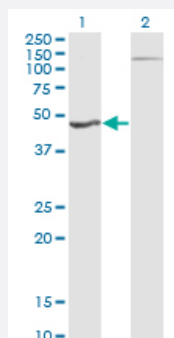


# HGD monoclonal antibody (M11), clone 1F1

Catalog # H00003081-M11

Size 100 ug

## Applications

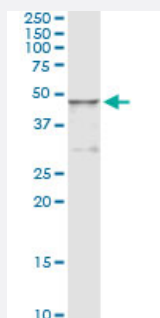


### Western Blot (Transfected lysate)

Western Blot analysis of HGD expression in transfected 293T cell line by HGD monoclonal antibody (M11), clone 1F1.

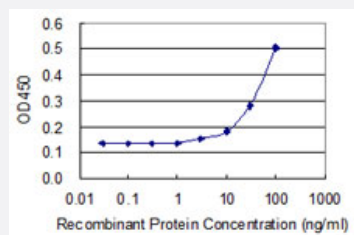
Lane 1: HGD transfected lysate (50 KDa).

Lane 2: Non-transfected lysate.



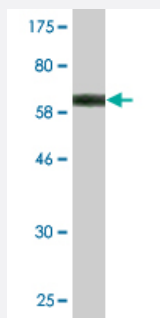
### Immunoprecipitation

Immunoprecipitation of HGD transfected lysate using anti-HGD monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with HGD MaxPab rabbit polyclonal antibody.



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HGD is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (61.71 KDa) .

## Specification

|                                |                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against a full-length recombinant HGD.                                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>               | HGD (AAH20792, 1 a.a. ~ 329 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                                                                                                                          |
| <b>Sequence</b>                | MAELKYISGFGNECSSDPRCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPRSTNKRSWL YRIL<br>PSVSHKPFESIDEGHVTHNWDEVDPDPNQLRWKPF EIPKASQKKVDFVSGLHTLCGAGDIKSNN<br>GLAIHIFLCNTSMENRCFYNSDGDFLVPQKGNLLIYTEFGKMLVQPNEICVIQRGMRF SIDVFEETR<br>GYILEVYGVHLELPDLGPIGANGLANPRDFLIPIAWYEDRQVPGGYTVINKYQGKLFAAKQDVSPFN<br>VVAWHGNYTPYKYNLKNFMVINSVAFDHADPSIFTVL TARRPARSSWHLRGLPMAPWHLCNLHL |
| <b>Host</b>                    | Mouse                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reactivity</b>              | Human                                                                                                                                                                                                                                                                                                                                                      |
| <b>Isotype</b>                 | IgG2a Kappa                                                                                                                                                                                                                                                                                                                                                |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (61.71 KDa) .                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                   |

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of HGD expression in transfected 293T cell line by HGD monoclonal antibody (M11), clone 1F1.

Lane 1: HGD transfected lysate(50 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of HGD transfected lysate using anti-HGD monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with HGD MaxPab rabbit polyclonal antibody.

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[Protocol Download](#)

- ELISA

## Gene Info — HGD

Entrez GeneID [3081](#)

GeneBank Accession# [BC020792](#)

Protein Accession# [AAH20792](#)

Gene Name HGD

Gene Alias AKU, HGO

Gene Description homogentisate 1,2-dioxygenase (homogentisate oxidase)

Omim ID [203500 607474](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Homogentisate 1,2-dioxygenase (HGD) gene mutations are the molecular cause of alkaptonuria, a rare hereditary disorder of the phenylalanine catabolism. The highest expression of HGD is in the prostate, small intestine, colon, and liver. The HGD gene contains 14 exons. Conflicting reports have placed the gene at 3q2, 3q13.3-q21, 3q21-q24, 3q21-q23, or 3q25-q26. [provided by RefSeq]

**Other Designations** homogentisate 1,2-dioxygenase|homogentisicase

## Pathway

- [Metabolic pathways](#)
- [Styrene degradation](#)
- [Tyrosine metabolism](#)