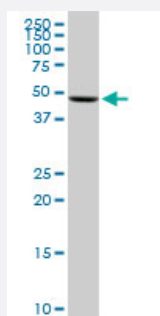


UGP2 monoclonal antibody (M01), clone 3H3

Catalog # H00007360-M01

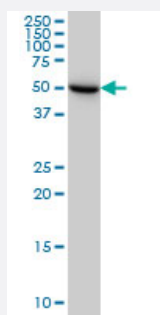
Size 100 ug

Applications



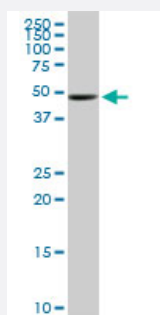
Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3. Western Blot analysis of UGP2 expression in Raw 264.7 (Cat # L024V1).



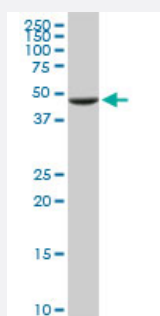
Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3 Western Blot analysis of UGP2 expression in HeLa (Cat # L013V1).



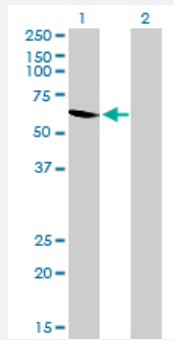
Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3. Western Blot analysis of UGP2 expression in NIH/3T3 (Cat # L018V1).



Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3. Western Blot analysis of UGP2 expression in PC-12 (Cat # L012V1).

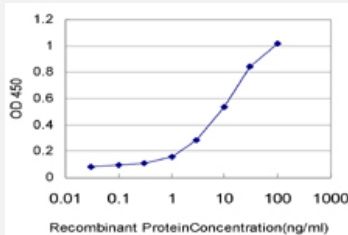


Western Blot (Transfected lysate)

Western Blot analysis of UGP2 expression in transfected 293T cell line by UGP2 monoclonal antibody (M01), clone 3H3.

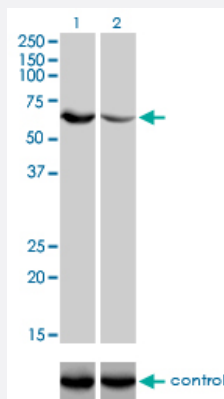
Lane 1: UGP2 transfected lysate (56.9 kDa).

Lane 2: Non-transfected lysate.



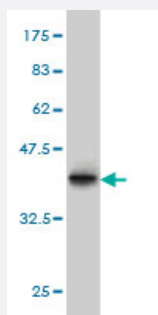
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged UGP2 is approximately 0.1 ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of UGP2 over-expressed 293 cell line, cotransfected with UGP2 Validated Chimera RNAi (Cat # H00007360-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with UGP2 monoclonal antibody (M01), clone 3H3 (Cat # H00007360-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (35.64 kDa).

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant UGP2.

Immunogen

UGP2 (NP_001001521, 1 a.a. ~ 90 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

Sequence	MSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDGFRKLFHRFLQEKGPSVDW GKIQRPPEDSIQPYEKIKARGLPDNI
Host	Mouse
Reactivity	Human, Mouse, Rat
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.64 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3. Western Blot analysis of UGP2 expression in Raw 264.7 (Cat # L024V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3 Western Blot analysis of UGP2 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3. Western Blot analysis of UGP2 expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

UGP2 monoclonal antibody (M01), clone 3H3. Western Blot analysis of UGP2 expression in PC-12 (Cat # L012V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of UGP2 expression in transfected 293T cell line by UGP2 monoclonal antibody (M01), clone 3H3.

Lane 1: UGP2 transfected lysate(56.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged UGP2 is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of UGP2 over-expressed 293 cell line, cotransfected with UGP2 Validated Chimera RNAi (Cat # H00007360-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with UGP2 monoclonal antibody (M01), clone 3H3 (Cat # H00007360-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — UGP2

Entrez GeneID [7360](#)

GeneBank Accession# [NM_001001521](#)

Protein Accession# [NP_001001521](#)

Gene Name UGP2

Gene Alias UDPG, UDPGP2, UGPP2, pHC379

Gene Description UDP-glucose pyrophosphorylase 2

Omim ID [191760](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

UDP-glucose diphosphorylase|UGPase 2|UTP--glucose-1-phosphate uridylyltransferase 2|UTP-glucose-1-phosphate uridylyltransferase|uridyl diphosphate glucose pyrophosphorylase 2

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Galactose metabolism](#)
- [Metabolic pathways](#)
- [Pentose and glucuronate interconversions](#)
- [Starch and sucrose metabolism](#)

Disease

- [Birth Weight](#)
- [Genetic Predisposition to Disease](#)
- [Hyperbilirubinemia](#)