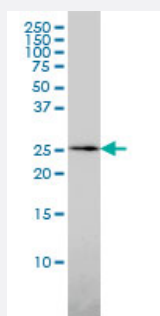


QDPR monoclonal antibody (M02), clone M1

Catalog # H00005860-M02

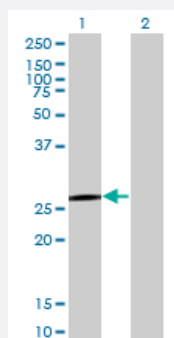
Size 100 ug

Applications



Western Blot (Cell lysate)

QDPR monoclonal antibody (M02), clone M1 Western Blot analysis of QDPR expression in HL-60 (Cat # L014V1).

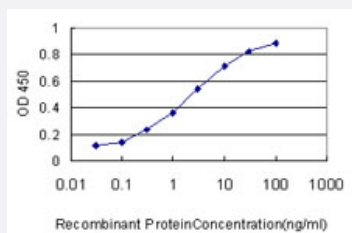


Western Blot (Transfected lysate)

Western Blot analysis of QDPR expression in transfected 293T cell line by QDPR monoclonal antibody (M02), clone M1.

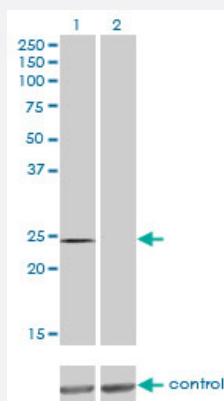
Lane 1: QDPR transfected lysate(25.8 KDa).

Lane 2: Non-transfected lysate.



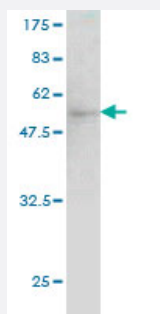
Sandwich ELISA (Recombinant protein)

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



RNAi Knockdown (Antibody validated)

Western blot analysis of QDPR over-expressed 293 cell line, cotransfected with QDPR Validated Chimera RNAi (Cat # H00005860-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with QDPR monoclonal antibody (M02), clone M1 (Cat # H00005860-M02). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (52.58 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant QDPR.
Immunogen	QDPR (AAH00576, 1 a.a. ~ 244 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAAAAAAGEARRVLVYGGRGALGSRVQAFRARNWWVASVDVVENEEASASIVKMTDSFTEQ ADQVTAIEVGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQSWTSTISSHLATKHLK EGGLTLGAKAALDGTGPMIGYGMAGAVHQLCQSLAGKNSGMPPGAAAAIAPVTLDTMPNMR KSMPEADFSSWTPLEFLVETFDHWITGKNRPSSGSLIQVVTTEGRTELTAYF
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (94); Rat (95)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (52.58 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)

QDPR monoclonal antibody (M02), clone M1 Western Blot analysis of QDPR expression in HL-60 (Cat # L014V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of QDPR expression in transfected 293T cell line by QDPR monoclonal antibody (M02), clone M1.

Lane 1: QDPR transfected lysate(25.8 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of QDPR over-expressed 293 cell line, cotransfected with QDPR Validated Chimera RNAi (Cat # H00005860-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with QDPR monoclonal antibody (M02), clone M1 (Cat # H00005860-M02). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — QDPR

Entrez GeneID	5860
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GeneBank Accession#	BC000576
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Protein Accession#	AAH00576
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Gene Name	QDPR
Gene Alias	DHPR, FLJ42391, PKU2, SDR33C1
Gene Description	quinoid dihydropteridine reductase
Omim ID	261630
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the enzyme dihydropteridine reductase, which catalyzes the NADH-mediated reduction of quinonoid dihydrobiopterin. This enzyme is an essential component of the pterin-dependent aromatic amino acid hydroxylating systems. Mutations in this gene resulting in QDPR deficiency include aberrant splicing, amino acid substitutions, insertions, or premature terminations. Dihydropteridine reductase deficiency presents as atypical phenylketonuria due to insufficient production of biopterin, a cofactor for phenylalanine hydroxylase. [provided by RefSeq]
Other Designations	6,7-dihydropteridine reductase short chain dehydrogenase/reductase family 33C, member 1

Publication Reference

- [Human myelin proteome and comparative analysis with mouse myelin.](#)

Ishii A, Dutta R, Wark GM, Hwang SI, Han DK, Trapp BD, Pfeiffer SE, Bansal R.

PNAS 2009 Aug; 106(34):14605.

Application: WB-Ti, Human, Human brain tissues, Human myelins

Pathway

- [Folate biosynthesis](#)
- [Metabolic pathways](#)

Disease

- [Anorexia Nervosa](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Dystonic Disorders](#)

- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)