

QDPR Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a full length recombinant QDPR.****Catalog # AT3507a****Specification**

QDPR Antibody (monoclonal) (M02) - Product Information

Application	WB, E
Primary Accession	P09417
Other Accession	BC000576
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	25790

QDPR Antibody (monoclonal) (M02) - Additional Information**Gene ID** 5860**Other Names**

Dihydropteridine reductase, HDHPR, Quinoid dihydropteridine reductase, QDPR, DHPR

Target/Specificity

QDPR (AAH00576, 1 a.a. ~ 244 a.a) full-length 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

QDPR Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

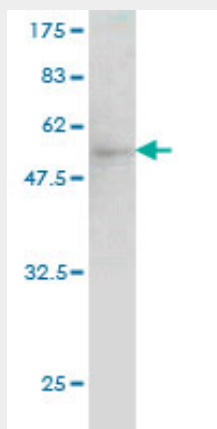
QDPR Antibody (monoclonal) (M02) - Protocols

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

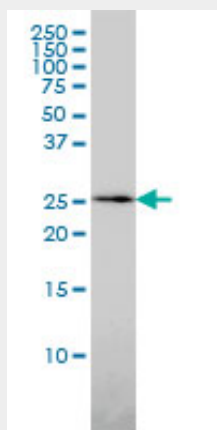
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

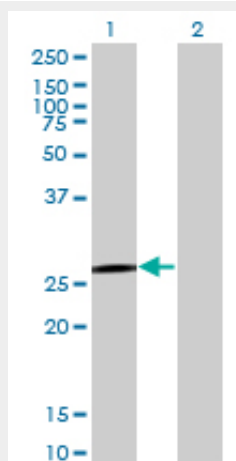
QDPR Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (52.58 KDa) .

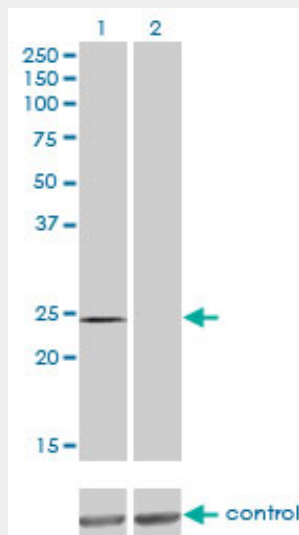


QDPR monoclonal antibody (M02), clone M1 Western Blot analysis of QDPR expression in HL-60 (Cat # AT3507a)

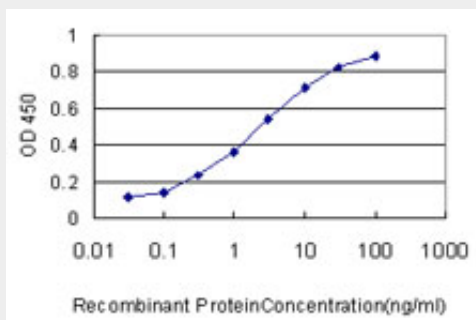


Western Blot analysis of QDPR expression in transfected 293T cell line by QDPR monoclonal antibody (M02), clone M1.

Lane 1: QDPR transfected lysate(25.8 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of QDPR over-expressed 293 cell line, cotransfected with QDPR Validated Chimera RNAi (Cat # AT3507a)



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

QDPR Antibody (monoclonal) (M02) - Background

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.

QDPR Antibody (monoclonal) (M02) - References

1.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.Proc Natl Acad Sci U S A. 2009 Aug 25;106(34):14605-10. Epub 2009 Aug 13.