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QDPR Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant QDPR.
Catalog # AT3507a

Product Information

Application	WB, E
Primary Accession	P09417
Other Accession	BC000576
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	M1
Calculated MW	25790

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.

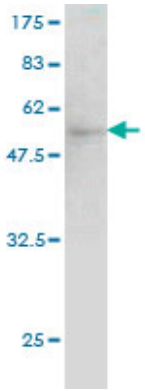
Background

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.

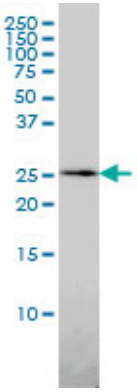
References

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.

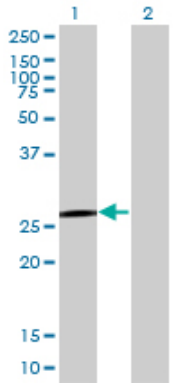
Images



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

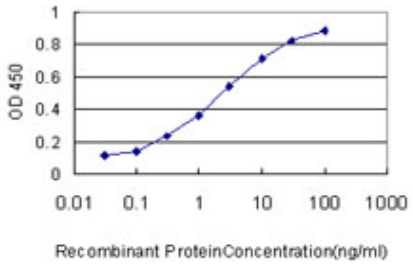


QDPR monoclonal antibody (M02), clone M1 Western Blot analysis of QDPR expression in HL-60 ((Cat # AT3507a)



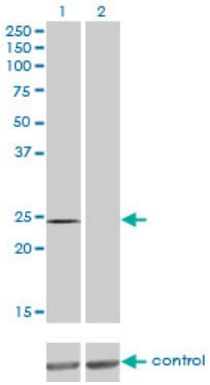
Western Blot analysis of QDPR expression in transfected 293T cell line by QDPR monoclonal antibody (M02), clone M1.

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



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

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.