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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

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|---|---|
| **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. |

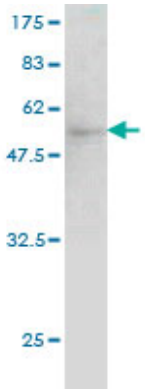
## Background

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.

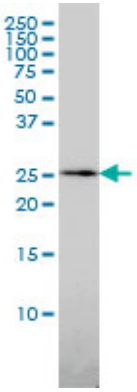
## References

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.

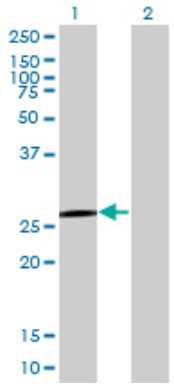
## Images




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

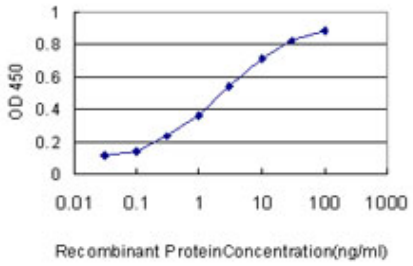



QDPR monoclonal antibody (M02), clone M1 Western Blot analysis of QDPR expression in HL-60 ( (Cat # AT3507a )



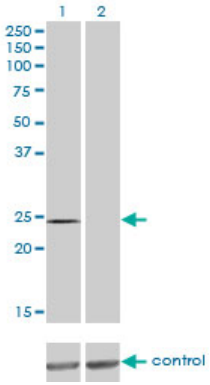

Western Blot analysis of QDPR expression in transfected 293T cell line by QDPR monoclonal antibody (M02), clone M1.

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'.