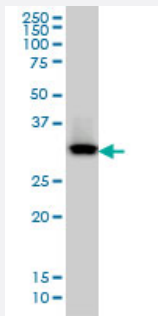


QPRT monoclonal antibody (M01), clone 5D11

Catalog # H00023475-M01

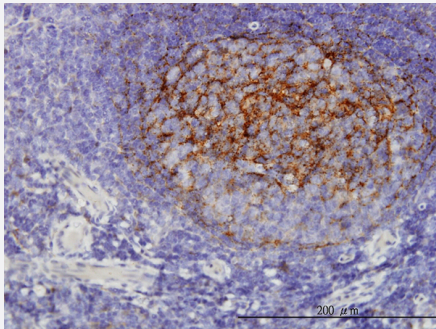
Size 100 ug

Applications



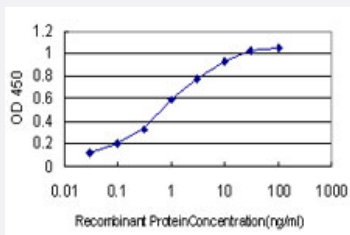
Western Blot (Cell lysate)

QPRT monoclonal antibody (M01), clone 5D11 Western Blot analysis of QPRT expression in HepG2 (Cat # L019V1).



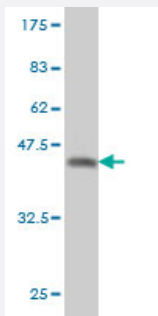
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to QPRT on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged QPRT is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant QPRT.
Immunogen	QPRT (NP_055113, 198 a.a. ~ 297 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VEVECSSLQEAVQAAEAGADLVLLDNFKPEELHPTATVLKAQFPSVAVEASGGITLDNLPQFCG PHIDVISMGMLTQAAPALDFSLKLFKEVAPVPKIH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (84); Rat (82)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 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)

QPRT monoclonal antibody (M01), clone 5D11 Western Blot analysis of QPRT expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to QPRT on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]

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- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged QPRT is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — QPRT

Entrez GeneID [23475](#)

GeneBank Accession# [NM_014298](#)

Protein Accession# [NP_055113](#)

Gene Name QPRT

Gene Alias QPRTase

Gene Description quinolate phosphoribosyltransferase

Omim ID [606248](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a key enzyme in catabolism of quinolate, an intermediate in the tryptophan-nicotinamide adenine dinucleotide pathway. Quinolate acts as a most potent endogenous excitotoxin to neurons. Elevation of quinolate levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease. [provided by RefSeq]

Other Designations nicotinate-nucleotide pyrophosphorylase (carboxylating)

Publication Reference

- [Kynurenine Pathway Modulation Reverses the Experimental Autoimmune Encephalomyelitis Mouse Disease Progression.](#)

Gayathri Sundaram, Chai K Lim, Bruce J Brew, Gilles J Guillemin.

Journal of Neuroinflammation 2020 Jun; 17(1):176.

Application: IHC-P, Mouse, Spinal cord

- [Anti-apoptotic quinolinate phosphoribosyltransferase \(QPRT\) is a target gene of Wilms' tumor gene 1 \(WT1\) protein in leukemic cells.](#)

Ullmark T, Montano G, Järvstråt L, Jernmark Nilsson H, Håkansson E, Drott K, Nilsson B, Vidovic K, Gullberg U.

Biochemical and Biophysical Research Communications 2016 Nov; 482(4):802.

Application: WB, Human, K-562 cells

- [QPRT: a potential marker for follicular thyroid carcinoma including minimal invasive variant; a gene expression, RNA and immunohistochemical study.](#)

Hinsch N, Frank M, Doring C, Vorlander C, Hansmann ML.

BMC Cancer 2009 Mar; 9:93.

Application: IHC-P, WB-Ti, Human, Human follicular thyroid carcinoma

Pathway

- [Biosynthesis of alkaloids derived from ornithine](#)
- [Metabolic pathways](#)
- [Nicotinate and nicotinamide metabolism](#)