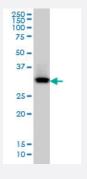


QPRT monoclonal antibody (M01), clone 5D11

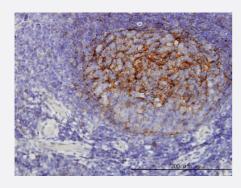
Catalog # H00023475-M01 Size 100 ug

Applications



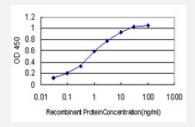
Western Blot (Cell lysate)

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



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

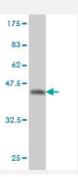
Immunoperoxidase of monoclonal antibody to QPRT on formalin-fixed paraffinembedded human tonsil. [antibody concentration 3 ug/ml]



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 PHIDVISMGMLTQAAPALDFSLKLFAKEVAPVPKIH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (84); Rat (82)
Isotype	lgG1 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]

Protocol Download

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 GenelD	<u>23475</u>
GeneBank Accession#	NM_014298
Protein Accession#	NP_055113
Gene Name	QPRT
Gene Alias	QPRTase
Gene Description	quinolinate phosphoribosyltransferase
Omim ID	606248
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a key enzyme in catabolism of quinolinate, an intermediate in the tryptophan-n icotinamide adenine dinucleotide pathway. Quinolinate acts as a most potent endogenous exitoto xin to neurons. Elevation of quinolinate levels in the brain has been linked to the pathogenesis of n eurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease. [pr ovided 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