

Product datasheet for **CF501521**

QPRT Mouse Monoclonal Antibody [Clone ID: OTI3B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3B3
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:50, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human QPRT (NP_055113) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30.6 kDa
Gene Name:	quinolinate phosphoribosyltransferase
Database Link:	NP_055113 Entrez Gene 23475 Human Q15274



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Background:

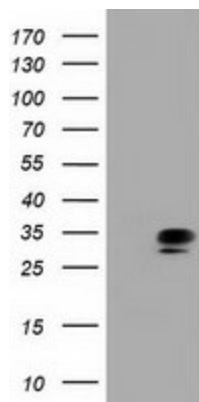
This gene encodes a key enzyme in catabolism of quinolinate, an intermediate in the tryptophan-nicotinamide adenine dinucleotide pathway. Quinolinate acts as a most potent endogenous excitotoxin to neurons. Elevation of quinolinate levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease. [provided by RefSeq]. COMPLETENESS: complete on the 3' end.

Synonyms:

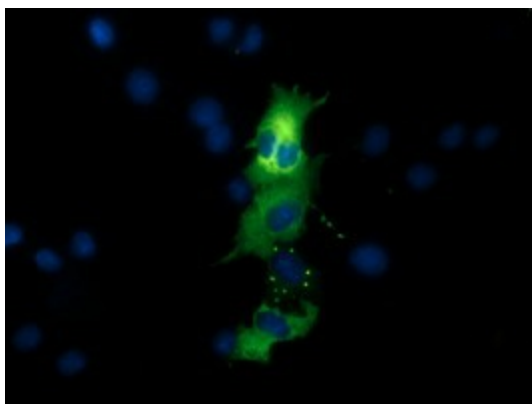
HEL-S-90n; QPRTase

Protein Pathways:

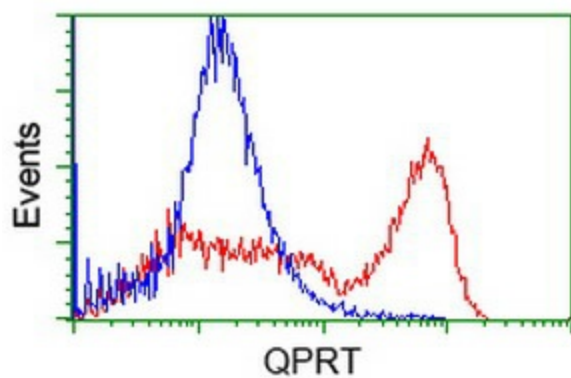
Metabolic pathways, Nicotinate and nicotinamide metabolism

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY QPRT ([RC202960], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-QPRT. Positive lysates [LY402307] (100ug) and [LC402307] (20ug) can be purchased separately from OriGene.



Anti-QPRT mouse monoclonal antibody ([TA501521]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY QPRT ([RC202960]).



HEK293T cells transfected with either [RC202960] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-QPRT antibody ([TA501521]), and then analyzed by flow cytometry.