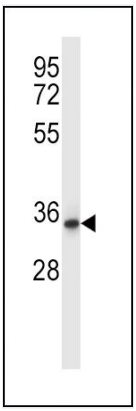
QPRT Antibody – Rabbit Polyclonal

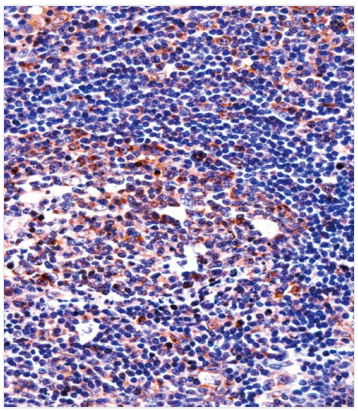
PRODUCT OVERVIEW

Product Name	QPRT, Polyclonal Antibody
Full Product Name	QPRT, CT (QPRT, Nicotinate-nucleotide pyrophosphorylase [carboxylating], Quinolinate phosphoribosyltransferase [decarboxylating]) (AP)
Product Gene Name	anti-QPRT antibody
Product Synonym Names	QPRT; Nicotinate-nucleotide pyrophosphorylase [carboxylating]; Quinolinate phosphoribosyltransferase [decarboxylating]
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	606248
3D Structure	ModBase 3D Structure for Q15274
Immunogen	QPRT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 205-234 amino acids from the C-terminal region of human QPRT.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-QPRT antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-QPRT antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-QPRT antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-QPRT antibody	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 exitotoxin 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.
Product References and Citations for anti-QPRT antibody	Hinsch, N., et al. BMC Cancer 9, 93 (2009): Liu, H., et al. J. Mol. Biol. 373(3):755-763(2007). Magni, G., et al. Cell. Mol. Life Sci. 61(1):19-34(2004). Fukuoka, S., et al. Adv. Exp. Med. Biol. 467, 611-614 (1999): Fukuoka, S.I., et al. Biochim. Biophys. Acta 1395(2):192-201(1998).
Other Notes	Small volumes of anti-QPRT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for QPRT purchase	MBS6339437 is an antibody targeting QPRT. Also known as QPRT, CT (QPRT, Nicotinate-nucleotide pyrophosphorylase [carboxylating], Quinolinate phosphoribosyltransferase [decarboxylating]) (AP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-QPRT antibody
QPRT Antibody (C-term) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the QPRT antibody detected the QPRT protein (arrow).



Immunohistochemistry (IHC) of anti-QPRT antibody
QPRT Antibody (C-term) (AP14383b)immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of QPRT Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for QPRT. It may not necessarily be applicable to this product.

NCBI GI #	45269149
NCBI GeneID	23475
NCBI Accession #	NP_055113.2
UniProt Primary Accession #	Q15274
UniProt Secondary Accession #	Q53XW7; Q96G22; Q9BSG6
UniProt Related Accession #	Q15274
GenBank Nucleotide #	NM_014298.3
NCBI Official Full Name	nicotinate-nucleotide pyrophosphorylase
NCBI Official Synonym Full Names	quinolinate phosphoribosyltransferase
NCBI Official Symbol	QPRT
NCBI Official Synonym Symbols	QPRTase; HEL-S-90n
UniProt Protein Name	Nicotinate-nucleotide pyrophosphorylase [carboxylating]
UniProt Synonym Protein Names	Quinolinate phosphoribosyltransferase [decarboxylating]; QAPRTase; QPRTase
Protein Family	Nicotinate-nucleotide pyrophosphorylase
UniProt Gene Name	QPRT
UniProt Synonym Gene Names	QAPRTase; QPRTase
UniProt Entry Name	NADC_HUMAN
NCBI Protein Information	nicotinate-nucleotide pyrophosphorylase [carboxylating]; nicotinate-nucleotide pyrophosphorylase [carboxylating]; QAPRTase; epididymis secretory sperm binding protein Li 90n; nicotinate-nucleotide pyrophosphorylase (carboxylating)

UniProt Comments for QPRT	QPRT: Involved in the catabolism of quinolinic acid (QA). Belongs to the NadC/ModD family. Protein type: Transferase; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide; EC 2.4.2.19 Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cytoplasm; cytosol Molecular Function: protein homodimerization activity; nicotinate-nucleotide diphosphorylase (carboxylating) activity Biological Process: NAD biosynthetic process; vitamin metabolic process; NAD metabolic process; water-soluble vitamin metabolic process; protein oligomerization
Research Articles on QPRT	**1.** Report of the crystal structure of human QPRT bound to its inhibitor phthalic acid (PHT) and kinetic analysis of PHT inhibition of human QPRT.
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