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Product Information

MemDX™ Membrane Protein Human TYROBP (Transmembrane immune signaling adaptor TYROBP) expressed in *In vitro* wheat germ expression system for Antibody Discovery

Cat. No.: **MP1460X**
This product is for research use only and is not intended for diagnostic use.

This product is a 38.6 kDa Human TYROBP membrane protein expressed in *In vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
TYROBP

Protein Length
Full-length

Molecular Weight
38.6 kDa

TMD
1

Sequence
MGGLEPCSRLLLLPLLLAVSGLRPVQAQAQSDCSCSTVSPGVLAGIVMGDLVLTVLIALAVYFLGRLVPRGRGAAEAATRKQRITET

Product Description

Application
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems
in vitro wheat germ expression system

Tag
GST-tag at N-terminal

Protein Format
Liposome

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

TYROBP

Full Name

Transmembrane immune signaling adaptor TYROBP

Introduction

This gene encodes a transmembrane signaling polypeptide which contains an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. The encoded protein may associate with the killer-cell inhibitory receptor (KIR) family of membrane glycoproteins and may act as an activating signal transduction element. This protein may bind zeta-chain (TCR) associated protein kinase 70kDa (ZAP-70) and spleen tyrosine kinase (SYK) and play a role in signal transduction, bone modeling, brain myelination, and inflammation. Mutations within this gene have been associated with polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL), also known as Nasu-Hakola disease. Its putative receptor, triggering receptor expressed on myeloid cells 2 (TREM2), also causes PLOSL. Multiple alternative transcript variants encoding distinct isoforms have been identified for this gene.

Alternative Names

DAP12; KARAP; PLOSL; PLOSL1; TYRO protein tyrosine kinase-binding protein; DNAX adaptor protein 12; DNAX-activation protein 12; KAR-associated protein; TYRO protein tyrosine kinase binding protein; killer-activating receptor-associated protein; polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy

Gene ID

7305

UniProt ID

O43914