

Product Information

MemDX™ Membrane Protein Human TYROBP (Transmembrane immune signaling adaptor TYROBP) Full Length

Cat. No.: **MPC1873K**

This product is for research use only and is not intended for diagnostic use.

This product is a 12.1 kDa Human TYROBP membrane protein expressed in HEK293. 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

Protein Class

Immunity

Molecular Weight

12.1 kDa

TMD

1

Sequence

MGGLEPCSRLLLLPLLLAVSGLRPVQAQAQSDCSCSTVSPGVLAGIVMGD
LVLTVLIALAVYFLGRLVPRGRGAAEAATRKQRITETESPYQELQGQRSD
VYSDLNTQRPYYK

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

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

TYROBP; 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; Transmembrane immune signaling adaptor TYROBP

Gene ID

[7305](#)

UniProt ID

[O43914](#)