

Recombinant Full Length Human TYROBP Protein, C-Flag-tagged

Cat. No. TYROBP-1569HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TYROBP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	9.3 kDa

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AA Sequence	MGGLEPCSRLLLLPLLLAVSGLRPVQAQAQSDCSCSTVSPGVLAGIVMGDLVLTVLI ALAVYFLGRLVPRGRGAEEAATRKQRITETESPYQELQGQRSDVYSDLNTQRPYYK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Natural killer cell mediated cytotoxicity
Full Length	Full L.

GENE INFORMATION

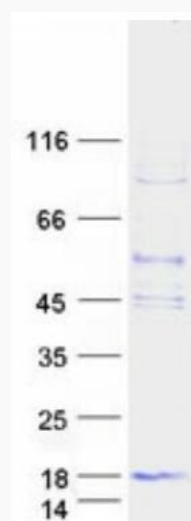
Gene Name	TYROBP transmembrane immune signaling adaptor TYROBP [Homo sapiens (human)]
Official Symbol	TYROBP
Synonyms	DAP12; KARAP; PLOSL; PLOSL1

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Gene ID	7305
mRNA Refseq	NM_003332.4
Protein Refseq	NP_003323.1
MIM	604142
UniProt ID	O43914



Coomassie blue staining of purified TYROBP protein.