

Recombinant Human TYROBP Protein, His&GST-tagged

Cat. No. TYROBP-519H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TYROBP Protein (Leu22-Lys113) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu22-Lys113
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.0 kDa

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	Accurate Molecular Mass: 42 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TYROBP TYRO protein tyrosine kinase binding protein [Homo sapiens (human)]
Official Symbol	TYROBP
Synonyms	TYROBP; TYRO protein tyrosine kinase binding protein; PLOSL; TYRO protein tyrosine kinase-binding protein; DAP12; DNAX activation protein 12; KARAP; killer activating receptor associated protein; PLO SL; KAR-associated protein; DNAX-activation protein 12; killer-activating receptor-associated protein
Gene ID	7305

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mRNA Refseq	NM_198125
Protein Refseq	NP_937758
MIM	604142
UniProt ID	O43914

