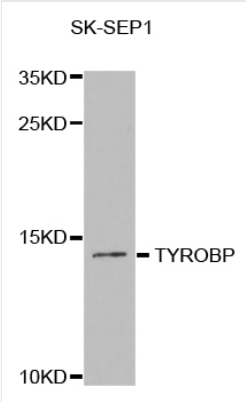
TYROBP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TYROBP, Polyclonal Antibody
Full Product Name	TYROBP Antibody
Product Gene Name	anti-TYROBP antibody
Product Synonym Names	DAP12; KARAP; PLOSL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total TYROBP protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	11,043 Da
OMIM	221770
3D Structure	ModBase 3D Structure for O43914
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human TYROBP.
Target Name	TYROBP
Product Categories/Family for anti-TYROBP antibody	Total protein Ab
Applications Tested/Suitable for anti-TYROBP antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TYROBP antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200
Related Product Information for anti-TYROBP antibody	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.
Other Notes	Small volumes of anti-TYROBP 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 TYROBP purchase	MBS9406130 is an antibody targeting TYROBP. Also known as TYROBP Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TYROBP antibody
Western blot analysis of extracts of SK-SEP1 cell line, using TYROBP antibody.

ADDITIONAL DETAILS

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

NCBI GI #	291045272
NCBI GeneID	7305
NCBI Accession #	NP_001166985.1
UniProt Primary Accession #	O43914
UniProt Secondary Accession #	Q6FGA5; Q9UMT3; A8K2X0; F5H389
UniProt Related Accession #	O43914
GenBank Nucleotide #	NM_001173514.1
NCBI Official Full Name	TYRO protein tyrosine kinase-binding protein isoform 3
NCBI Official Synonym Full Names	TYRO protein tyrosine kinase binding protein
NCBI Official Symbol	TYROBP
NCBI Official Synonym Symbols	DAP12; KARAP; PLOSL
UniProt Protein Name	TYRO protein tyrosine kinase-binding protein
UniProt Synonym Protein Names	DNAX-activation protein 12; Killer-activating receptor-associated protein; KAR-associated protein
Protein Family	TYRO protein tyrosine kinase-binding protein
UniProt Gene Name	TYROBP
UniProt Synonym Gene Names	DAP12; KARAP; KAR-associated protein
UniProt Entry Name	TYOBP_HUMAN
NCBI Protein Information	TYRO protein tyrosine kinase-binding protein

UniProt Comments for TYROBP	TYROBP: Non-covalently associates with activating receptors of the CD300 family. Cross-linking of CD300-TYROBP complexes results in cellular activation. Involved for instance in neutrophil activation mediated by integrin. Defects in TYROBP are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL); also called presenile dementia with bone cysts or Nasu-Hakola disease (NHD). PLOSL is a recessively inherited disease characterized by a combination of psychotic symptoms rapidly progressing to presenile dementia and bone cysts restricted to wrists and ankles. PLOSL has a global distribution, although most of the patients have been diagnosed in Finland and Japan, with an estimated population prevalence of 2x10(-6) in the Finns. Belongs to the TYROBP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell surface Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: cell surface; integral to plasma membrane; plasma membrane Molecular Function: identical protein binding; protein binding; receptor signaling protein activity; receptor binding Biological Process: integrin-mediated signaling pathway; axon guidance; neutrophil activation during immune response; regulation of immune response; macrophage activation during immune response; innate immune response; cellular defense response; signal transduction Disease: Polycystic Lipomembranous Osteodysplasia With Sclerosing Leukoencephalopathy
Research Articles on TYROBP	**1.** results support a role of DAP12 in stabilizing TREM2-CTF, thereby protecting against excessive pro-inflammatory responses.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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