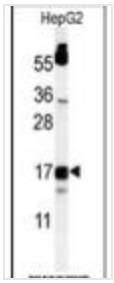
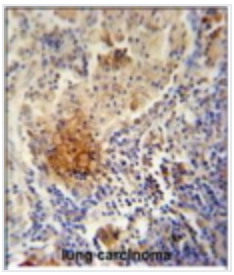
TYROBP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

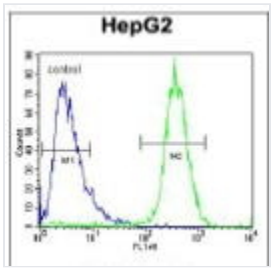
Product Name	TYROBP, Polyclonal Antibody
Full Product Name	TYROBP, CT (TYROBP, DAP12, KARAP, TYRO protein tyrosine kinase-binding protein, DNAX-activation protein 12, Killer-activating receptor-associated protein) (AP)
Product Gene Name	anti-TYROBP antibody
Product Synonym Names	TYROBP; DAP12; KARAP; TYRO protein tyrosine kinase-binding protein; DNAX-activation protein 12; Killer-activating receptor-associated protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human TYROBP.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	11,043 Da
OMIM	phenotype 604142
3D Structure	ModBase 3D Structure for O43914
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 85-113 in the C-terminal region of human TYROBP. Species sequence homology: bovine
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-TYROBP antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-TYROBP antibody	Immunohistochemistry (IHC) Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-TYROBP antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TYROBP antibody	MBS6360442 is an antibody targeting TYROBP. Also known as TYROBP, CT (TYROBP, DAP12, KARAP, TYRO protein tyrosine kinase-binding protein, DNAX-activation protein 12, Killer-activating receptor-associated protein) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TYROBP antibody	1. Chen, X., et al. Blood 113(14):3226-3234(2009). 2. Sulonen, A.M., et al. J. Neuroimmunol. 206 (1-2), 86-90 (2009). 3. Lanier, L.L. Immunol. Rev. 227(1):150-160(2009). 4. Schleinitz, N., et al. PLoS ONE 4 (7), E6264 (2009).
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.



Western Blot (WB) of anti-TYROBP antibody
Western Blot analysis in HepG2 cell line lysates (35ug/lane) usingMBS642647. TYROBP (arrow) was detected usingMBS642647.



Immunohistochemistry (IHC) of anti-TYROBP antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma using MBS642647 followed by peroxidase conjugation of the secondary antibody and DAB staining.



Testing Data of anti-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 #	4507755
NCBI GeneID	7305
NCBI Accession #	NP_003323.1
UniProt Primary Accession #	O43914
UniProt Secondary Accession #	Q6FGA5; Q9UMT3; A8K2X0; F5H389
UniProt Related Accession #	O43914
GenBank Nucleotide #	NM_003332.3
NCBI Official Full Name	TYRO protein tyrosine kinase-binding protein isoform 1
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; KAR-associated protein; DNAX-activation protein 12; killer-activating receptor-associated protein

NCBI Summary for TYROBP	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. [provided by RefSeq, Mar 2010]
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: Cell surface; Membrane protein, integral 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; regulation of immune response; neutrophil activation during 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.** Its mutation is a known genetic cause of Nasu-Hakola disease.
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