ROR2/NTRKR2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ROR2/NTRKR2, Monoclonal Antibody
Full Product Name	Anti-Human ROR2/NTRKR2 Antibody (GK-5A1), PE
Product Gene Name	anti-ROR2/NTRKR2 antibody
Product Synonym Names	ROR2; Neurotrophic tyrosine kinase; receptor-related 2; NTRKR2; Tyrosine-protein kinase transmembrane receptor ROR2
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	GK-5A1
Host	Mouse
Species Reactivity	Human, Monkey, Mouse
Form/Format	Liquid; 0.01M PBS, pH 7.4, 0.2% BSA, 0.05% Proclin 300.
Concentration	0.5mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months. Protect from light. Do not freeze.
Molecular Weight	943
OMIM	phenotype 602337
3D Structure	ModBase 3D Structure for Q01974
Conjugation	PE
Product Categories/Family for anti-ROR2/NTRKR2 antibody	Super-Affinity Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ROR2/NTRKR2 antibody	ELISA (EIA), Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-ROR2/NTRKR2 antibody	MBS1584486 is an antibody targeting ROR2/NTRKR2. Also known as Anti-Human ROR2/NTRKR2 Antibody (GK-5A1), PE. Reactive in Human, Monkey, Mouse. Host: Mouse.
Other Notes	Small volumes of anti-ROR2/NTRKR2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROR2/NTRKR2. It may not necessarily be applicable to this product.

NCBI GI #	90110767
NCBI GeneID	4920
NCBI Accession #	Q01974.2
UniProt Primary Accession #	Q01974

UniProt Secondary Accession #	Q59GF5; Q5SPI5; Q9HAY7; Q9HB61
UniProt Related Accession #	Q01974
NCBI Official Full Name	Tyrosine-protein kinase transmembrane receptor ROR2
NCBI Official Synonym Full Names	receptor tyrosine kinase-like orphan receptor 2
NCBI Official Symbol	ROR2
NCBI Official Synonym Symbols	BDB; BDB1; NTRKR2
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR2
UniProt Synonym Protein Names	Neurotrophic tyrosine kinase, receptor-related 2
UniProt Gene Name	ROR2
UniProt Synonym Gene Names	NTRKR2
UniProt Entry Name	ROR2_HUMAN
NCBI Protein Information	tyrosine-protein kinase transmembrane receptor ROR2; neurotrophic tyrosine kinase receptor-related 2
NCBI Summary for ROR2/NTRKR2	The protein encoded by this gene is a receptor protein tyrosine kinase and type I transmembrane protein that belongs to the ROR subfamily of cell surface receptors. The protein may be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development. Mutations in this gene can cause brachydactyly type B, a skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In addition, mutations in this gene can cause the autosomal recessive form of Robinow syndrome, which is characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly, and a dysmorphic facial appearance. [provided by RefSeq, Jul 2008]
UniProt Comments for ROR2/NTRKR2	ROR2: a receptor tyrosine kinase of the ROR family. May be involved in the early formation of the chondrocytes and may be required for cartilage and growth plate development. Mutations can cause brachydactyly type B, a skeletal disorder characterized by hypoplasia/aplasia of distal phalanges and nails. In addition, mutations in this gene can cause the autosomal recessive form of Robinow syndrome, which is characterized by skeletal dysplasia with generalized limb bone shortening, segmental defects of the spine, brachydactyly, and a dysmorphic facial appearance. Protein type: Protein kinase, TK; Membrane protein, integral; Kinase, protein; Protein kinase, tyrosine (receptor); EC 2.7.10.1; TK group; Ror family Chromosomal Location of Human Ortholog: 9q22 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: Wnt-protein binding; protein binding; frizzled binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: somitogenesis; inner ear morphogenesis; peptidyl-tyrosine phosphorylation; Wnt receptor signaling pathway, planar cell polarity pathway; multicellular organismal development; positive regulation of transcription, DNA-dependent; signal transduction; negative regulation of cell proliferation; Wnt receptor signaling pathway, calcium modulating pathway; JNK cascade; cell differentiation; transmembrane receptor protein tyrosine kinase signaling pathway; cartilage condensation; embryonic genitalia morphogenesis; positive regulation of cell migration Disease: Robinow Syndrome, Autosomal Recessive; Brachydactyly, Type B1
Research Articles on ROR2/NTRKR2	**1.** report a three-generation Chinese family with dominant inheritance of the BDB1 limb phenotype. Sequence analysis identified a novel heterozygous base deletion (c.1396-1398delAA) in the gene ROR2 in all affected family members
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