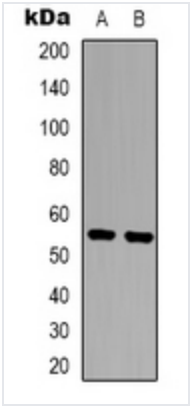
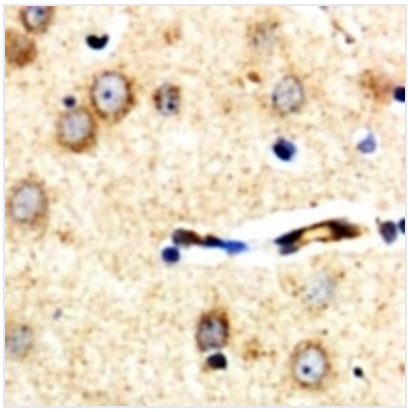
ARHGEF3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

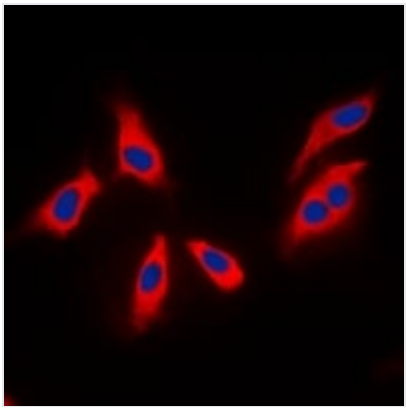
Product Name	XPLN (ARHGEF3), Polyclonal Antibody
Full Product Name	Anti-XPLN Antibody
Product Gene Name	anti-ARHGEF3 antibody
Product Synonym Names	Rho guanine nucleotide exchange factor 3; Exchange factor found in platelets and leukemic and neuronal tissues; XPLN
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% Sodium Azide.
Purity/Purification	The antibody was purified by affinity chromatography.
Specificity	Recognizes endogenous levels of XPLN protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	XPLN peptide (MBS8244515) is used for blocking the activity of XPLN antibody (MBS8242512)
Molecular Weight	36,981 Da
OMIM	612115
3D Structure	ModBase 3D Structure for Q9NR81
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human XPLN. The exact sequence is proprietary.
Applications Tested/Suitable for anti-ARHGEF3 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-ARHGEF3 antibody	Western Blot: (1/500 - 1/1000); Immunohistochemistry: (1/100 - 1/200); Immunofluorescence/Immunocytochemistry: (1/100 - 1/500)
Related Product Information for anti-ARHGEF3 antibody	MBS8242512 is an antibody targeting ARHGEF3. Also known as Anti-XPLN Antibody. Reactive in Human, Monkey. Host: Rabbit. Rabbit polyclonal antibody to XPLN
Other Notes	Small volumes of anti-ARHGEF3 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-ARHGEF3 antibody
Western blot analysis of XPLN expression in MCF7 (A), COLO205 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-ARHGEF3 antibody
Immunohistochemical analysis of XPLN staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-ARHGEF3 antibody
Immunofluorescent analysis of XPLN staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHGEF3. It may not necessarily be applicable to this product.

NCBI GI #	52782760
NCBI GeneID	50650
NCBI Accession #	Q9NR81.1
UniProt Primary Accession #	Q9NR81
UniProt Secondary Accession #	Q4FZB6; Q4QQI5; Q4QQQ0; Q59F00; Q6NUN3; Q7Z4U2; Q7Z5T2; Q9H7T4; A8K5U7
UniProt Related Accession #	Q9NR81
NCBI Official Full Name	Rho guanine nucleotide exchange factor 3
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor 3
NCBI Official Symbol	ARHGEF3
NCBI Official Synonym Symbols	GEF3; STA3; XPLN

UniProt Protein Name	Rho guanine nucleotide exchange factor 3
UniProt Synonym Protein Names	Exchange factor found in platelets and leukemic and neuronal tissues; XPLN
Protein Family	Rho guanine nucleotide exchange factor
UniProt Gene Name	ARHGEF3
UniProt Synonym Gene Names	XPLN
UniProt Entry Name	ARHG3_HUMAN
NCBI Protein Information	rho guanine nucleotide exchange factor 3
NCBI Summary for ARHGEF3	Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ARHGEF3	ARHGEF3: Acts as guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases. 4 isoforms of the human protein are produced by alternative splicing. Protein type: GAPs, Rac/Rho; Motility/polarity/chemotaxis; GAPs Chromosomal Location of Human Ortholog: 3p14.3 Cellular Component: cytosol; intracellular Molecular Function: protein binding; Rho guanyl-nucleotide exchange factor activity Biological Process: nerve growth factor receptor signaling pathway; positive regulation of apoptosis; positive regulation of GTPase activity; regulation of Rho protein signal transduction; regulation of small GTPase mediated signal transduction; Rho protein signal transduction; small GTPase mediated signal transduction
Research Articles on ARHGEF3	**1.** ARHGEF3 and RHOA are potential regulators of a number of genes in bone cells, with influences on ACTA2 evident in both osteoblast-like and osteoclast-like cells.
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