



XPLN Polyclonal Antibody

Catalog No	YP-Ab-16258
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	ARHGEF3
Immunogen	The antiserum was produced against synthesized peptide derived from human ARHGEF3. AA range:456-505
Specificity	XPLN Polyclonal Antibody detects endogenous levels of XPLN protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000.IHC-p:1:50-300 ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	124I24Rik;59.8 kDA protein;983169H3Rik;ARHGEF 3;C76747; DKFZP434F2429;Exchange factor found in platelets and leukemic and neuronal tissues;Exchange factor found in platelets and leukemic and neuronal tissues XPLN;FLJ98126;GEF 3;GEF3;MGC11895;Rho guanine nucleotide exchange factor (GEF) 3;Rho guanine nucleotide exchange factor 3;RhoGEF protein;STA 3;STA3;XPLN;ARHGEF3
Observed Band	55kD
Calculated Molecular Weight	55kD
Cell Pathway	Cytoplasm .
Tissue Specificity	Widely expressed. Highest levels are found in adult brain and skeletal muscle. Lower levels are found in heart and kidney.
Function	function:Acts as guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 PH domain.,subunit:Interacts with RHOA and RHOB.,tissue specificity:Widely expressed. Highest levels are found in adult brain and skeletal muscle. Lower levels are found in heart and kidney.,

**Background**

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],

matters needing attention

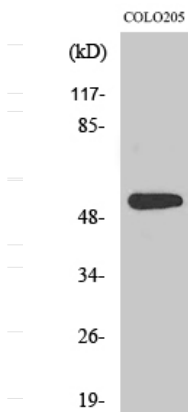
Avoid repeated freezing and thawing!

Usage suggestions

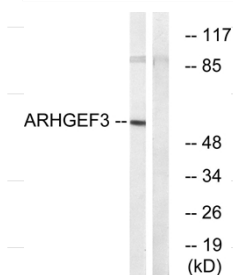
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



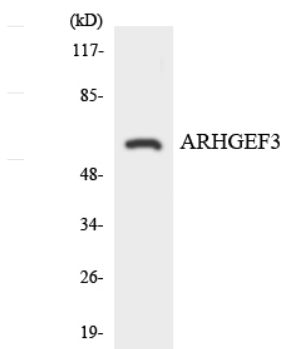
Products Images



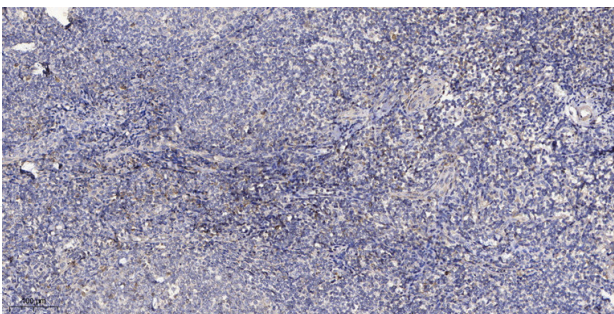
Western Blot analysis of various cells using XPLN Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from COLO cells, using ARHGEF3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using ARHGEF3 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).