Immunoway
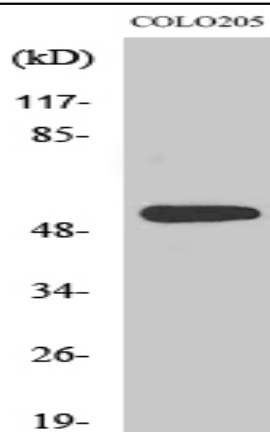
Best Tools for immunology Research

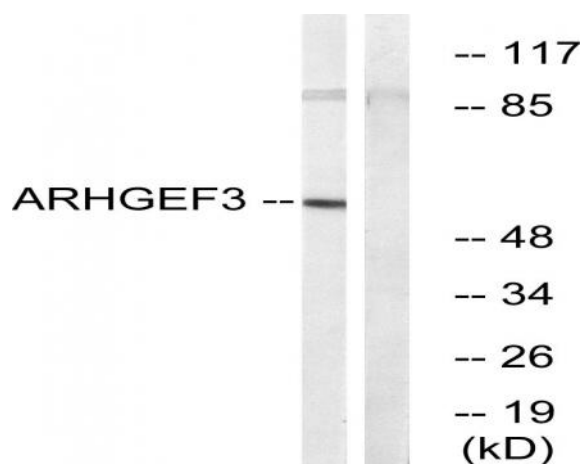## XPLN Polyclonal Antibody

Catalog No :   YT4916

Reactivity :   Human;Mouse;Rat

Applications :   WB;IHC;IF;ELISA

Target :   XPLN

Gene Name :   ARHGEF3

Protein Name :   Rho guanine nucleotide exchange factor 3

Human Gene Id :   50650

Human Swiss Prot No :   Q9NR81

Mouse Gene Id :   71704

Mouse Swiss Prot No :   Q91X46

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

Dilution :   WB 1:500 - 1:2000.IHC:1:50-300 ELISA: 1:20000.. IF 1:50-200

Purification :   The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :   1 mg/ml

Storage Stability :   -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 55kD

Cell Pathway : Regulation of Actin Dynamics; AMPK

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],

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.,

Subcellular Location : Cytoplasm .

Expression : Widely expressed. Highest levels are found in adult brain and skeletal muscle. Lower levels are found in heart and kidney.
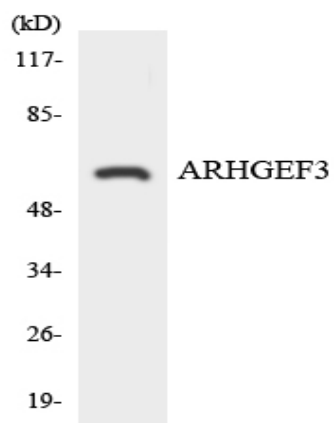
Sort : 24352

Host : Rabbit

Modifications : Unmodified
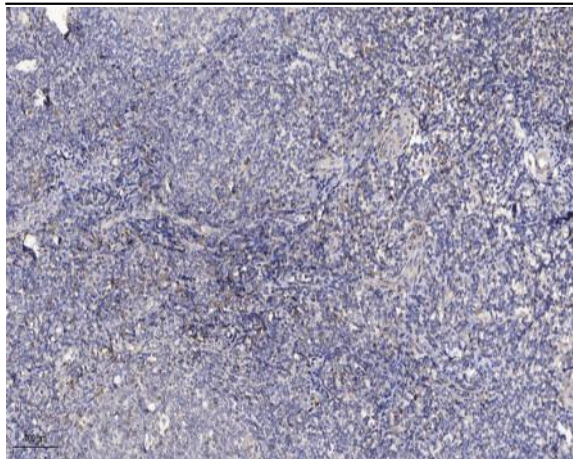
Products Images

COLO205

(kD)

117-
85-

48-

34-

26-

19-

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

-- 117
-- 85

ARHGEF3 --

-- 48
-- 34
-- 26
-- 19
(kD)

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

(kD)
117-

85-

ARHGEF3

48-

34-

26-

19-

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).