PLEKHA4 (T-15): sc-162018



The Power to Question

BACKGROUND

PLEKHA4 (pleckstrin homology domain-containing family A member 4), also known as PEPP1 (phosphoinositol 3-phosphate-binding protein 1), is a 779 amino acid protein that contains one Pleckstrin homology (PH) domain, which is found in proteins that are involved in intracellular signaling. PLEKH4A specifically binds to Ptdlns3P (phosphatidylinositol-3-phosphate), a phospholipid that resides on early endosomes, but not to other phosphoinositides. Though detected at low levels in normal skeletal muscle, small intestine, liver, heart and kidney, PLEKHA4 is found to be highly expressed in melanoma. The gene encoding PLEKH4 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. There are two isoforms of PLEKHA4 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLEKHA4 (human) mapping to 19q13.33; Plekha4 (mouse) mapping to 7 B4.

SOURCE

PLEKHA4 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLEKHA4 of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162018 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLEKHA4 (T-15) is recommended for detection of PLEKHA4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other PLEKHA family members.

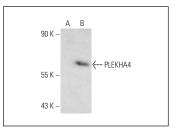
PLEKHA4 (T-15) is also recommended for detection of PLEKHA4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PLEKHA4 siRNA (h): sc-97478, PLEKHA4 siRNA (m): sc-152305, PLEKHA4 shRNA Plasmid (h): sc-97478-SH, PLEKHA4 shRNA Plasmid (m): sc-152305-SH, PLEKHA4 shRNA (h) Lentiviral Particles: sc-97478-V and PLEKHA4 shRNA (m) Lentiviral Particles: sc-152305-V.

Molecular Weight of PLEKHA4: 85 kDa.

Positive Controls: PLEKHA4 (h2): 293T Lysate: sc-173420.

DATA



PLEKHA4 (T-15): sc-162018. Western blot analysis of PLEKHA4 expression in non-transfected: sc-117752 (**A**) and human PLEKHA4 transfected: sc-173420 (**B**) 293T whole cell Iwsates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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