

YIPF3 (P-14): sc-162421

BACKGROUND

The YIP1 family consists of a group of small membrane proteins that bind Rab GTPases and function in membrane trafficking and vesicle biogenesis. YIPF3 (YIP1 family member 3), also known as KLIP1 (killer lineage protein 1) or FinGER3, is a 350 amino acid cytoplasmic and multi-pass membrane protein belonging to the YIP1 family. Involved in hematopoiesis, YIPF3 is found in fetal liver and is expressed by nucleated hematopoietic cells. The gene encoding YIPF3 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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3. Cesari, R., et al. 2003. Parkin, a gene implicated in autosomal recessive juvenile parkinsonism, is a candidate tumor suppressor gene on chromosome 6q25-q27. *Proc. Natl. Acad. Sci. USA* 100: 5956-5961.
4. Chen, C.Z. and Collins, R.N. 2005. Insights into biological functions across species: examining the role of Rab proteins in YIP1 family function. *Biochem. Soc. Trans.* 33: 614-618.
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CHROMOSOMAL LOCATION

Genetic locus: YIPF3 (human) mapping to 6p21.1; Yipf3 (mouse) mapping to 17 C.

SOURCE

YIPF3 (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of YIPF3 of human origin.

RESEARCH USE

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

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-162421 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

YIPF3 (P-14) is recommended for detection of YIPF3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 YIPF family members.

YIPF3 (P-14) is also recommended for detection of YIPF3 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for YIPF3 siRNA (h): sc-95487, YIPF3 siRNA (m): sc-155406, YIPF3 shRNA Plasmid (h): sc-95487-SH, YIPF3 shRNA Plasmid (m): sc-155406-SH, YIPF3 shRNA (h) Lentiviral Particles: sc-95487-V and YIPF3 shRNA (m) Lentiviral Particles: sc-155406-V.

Molecular Weight of YIPF3: 38 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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