

EIG121L (E-16): sc-139509

BACKGROUND

EIG121L, also known as hEIG121L, is a 1,029 single-pass type I membrane protein that belongs to the UPF0577 family. EIG121L can be glycosylated at amino acid positions 169, 405 and 691. Due to alternate splicing events, EIG121L exists as two isoforms. The gene encoding EIG121L maps to human chromosome 7q21.12, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KIAA1324L (human) mapping to 7q21.12; 9330182L06Rik (mouse) mapping to 5 A1.

SOURCE

EIG121L (E-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of EIG121L of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139509 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EIG121L (E-16) is recommended for detection of EIG121L of human origin, 9330182L06Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with EIG121 or 5330417C22Rik.

EIG121L (E-16) is also recommended for detection of EIG121L in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EIG121L siRNA (h): sc-89404, 9330182L06Rik siRNA (m): sc-140547, EIG121L shRNA Plasmid (h): sc-89404-SH, 9330182L06Rik shRNA Plasmid (m): sc-140547-SH, EIG121L shRNA (h) Lentiviral Particles: sc-89404-V and 9330182L06Rik shRNA (m) Lentiviral Particles: sc-140547-V.

Molecular Weight of EIG121L isoforms: 114/87 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

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.