**BACKGROUND**

The dynamics of a cell-cell interface such as tight junctions or adherens junctions are important in many developmental, physiological and pathological processes. AF-6 (MLLT4: myeloid/lymphoid or mixed-lineage leukemia translocated to 4) is a 1,612 amino acid protein that contains two N-terminal Ras binding domains (RBD) and a GLGF motif, and is implicated in Ras-mediated signaling events occurring at peripheral cell-cell junctions. AF-6 interacts with F-Actin and Profilin in cell-cell junctions, and may modulate Actin modeling near adhesion complexes. Furthermore, AF-6 coordinates junction adhesion molecule (JAM) recruitment to intercellular junctions through a PDZ domain. Developing mice deficient in AF-6 activity display a loss of neuro-epithelial polarity, suggesting that AF-6 activity is an important regulator of cell-cell junctions that influence apical/basolateral asymmetry.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MLLT4 (human) mapping to 6q27; Mllt4 (mouse) mapping to 17 A1.

**SOURCE**

AF-6 (35) is a mouse monoclonal antibody raised against amino acids 1091-1233 of AF-6 of human origin.

**PRODUCT**

Each vial contains 50 µg IgG2a in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

AF-6 (35) is recommended for detection of AF-6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); not recommended for immunoprecipitation.

Suitable for use as control antibody for AF-6 siRNA (h): sc-43007, AF-6 siRNA (m): sc-43008, AF-6 shRNA Plasmid (h): sc-43007-SH, AF-6 shRNA Plasmid (m): sc-43008-SH, AF-6 shRNA (h) Lentiviral Particles: sc-43007-V and AF-6 shRNA (m) Lentiviral Particles: sc-43008-V.

Molecular Weight of AF-6: 200 kDa.

Positive Controls: PC-12 cell lysate: sc-2250, SK-N-MC cell lysate: sc-2237 or IMR-32 cell lysate: sc-2409.

**DATA**

AF-6 (35): sc-135823. Western blot analysis of AF-6 expression in PC-12 whole cell lysate.

AF-6 (35): sc-135823. Immunofluorescence staining of mouse macrophage cells showing cytoplasmic localization.

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**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**PROTOCOLS**

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