SANTA CRUZ BIOTECHNOLOGY, INC.

ILEI (3A3): sc-293387



BACKGROUND

ILEI (interleukin-like Emt inducer), also known as FAM3C (family with sequence similarity 3, member C), is a 227 amino acid, ubiquitously expressed protein containing an amino-terminal signal peptide. Elevated levels of ILEI translation are observed in oncogenic, Ras-transformed mammary epithelial cells and epithelial to mesenchymal transition (Emt) as well as tumor growth and metastasis. Also, overexpression of ILEI results in loss of ZO-1, a protein involved in tight junctions, and expression of cytoplasmic E-cadherin, which has been shown to influence loss of polarity and invasiveness. Due to this evidence, it is suspected that ILEI cooperates with oncogenic Ras to cause TGF β -independent Emt and its overexpression is correlated with the invasion, metastasis and survival in a variety of cancers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM3C (human) mapping to 7q31.31.

SOURCE

ILEI (3A3) is a mouse monoclonal antibody raised against amino acids 25-227 representing full length ILEI of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 μg IgG_{2a} kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ILEI (3A3) is recommended for detection of ILEI of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ILEI siRNA (h): sc-89829, ILEI shRNA Plasmid (h): sc-89829-SH and ILEI shRNA (h) Lentiviral Particles: sc-89829-V.

Molecular Weight of ILEI: 25 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgGκ BP-HRP: sc-516102 or m-lgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA





ILEI (3A3): sc-293387. Western blot analysis of ILEI expression in A-431 whole cell lysate.

ILEI (3A3): sc-293387. Western blot analysis of human recombinant ILEI fusion protein.

STORAGE

Store at 4° C, **D0 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 for detailed protocols and support products.