SANTA CRUZ BIOTECHNOLOGY, INC.

ILRUN (A-2): sc-398490

BACKGROUND

Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. 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. Porphyria cutanea tarda is associated with chromosome 6 through the HFE gene which, when mutated, predisposes an individual to developing this porphyria. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatiblity complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6.

REFERENCES

1. Mungall, A.J., et al. 2003. The DNA sequence and analysis of human chromosome 6. Nature 425: 805-811.
2. Liu, Y., et al. 2009. Ablation of p120-catenin enhances invasion and metastasis of human lung cancer cells. Cancer Sci. 100: 441-448.
3. Liu, Y., et al. 2009. Abnormal expression of p120-catenin, E-cadherin, and small GTPases is significantly associated with malignant phenotype of human lung cancer. Lung Cancer 63: 375-382.
4. Wang, M., et al. 2009. Abnormal expression of p120-catenin and E-cadherin is significantly correlated with malignant phenotype of human lung cancer. Zhongguo Fei Ai Za Zhi 12: 306-311.
5. Miao, Y., et al. 2010. p120^{ctn} isoform 1 expression significantly correlates with abnormal expression of E-cadherin and poor survival of lung cancer patients. Med. Oncol. 27: 880-886.
6. Zhang, X., et al. 2015. C6orf106 enhances NSCLC cell invasion by upregulating vimentin, and downregulating E-cadherin and p120^{ctn}. Tumour Biol. 36: 5979-5985.
7. Jiang, G., et al. 2015. A novel biomarker C6orf106 promotes the malignant progression of breast cancer. Tumour Biol. 36: 7881-7889.

CHROMOSOMAL LOCATION

Genetic locus: ILRUN (human) mapping to 6p21.31.

SOURCE

ILRUN (A-2) is a mouse monoclonal antibody raised against amino acids 1-298 representing full length ILRUN of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 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

ILRUN (A-2) is recommended for detection of ILRUN of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for ILRUN siRNA (h): sc-95499, ILRUN shRNA Plasmid (h): sc-95499-SH and ILRUN shRNA (h) Lentiviral Particles: sc-95499-V.

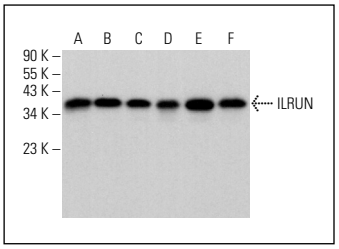
Molecular Weight of ILRUN: 33/26 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, HeLa whole cell lysate: sc-2200 or MDA-MB-231 cell lysate: sc-2232.

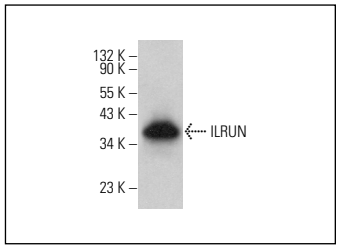
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ILRUN (A-2): sc-398490. Western blot analysis of ILRUN expression in HeLa (**A**), MDA-MB-435S (**B**), IMR-32 (**C**), C2C12 (**D**), BYDP (**E**) and PC-12 (**F**) whole cell lysates.



ILRUN (A-2): sc-398490. Western blot analysis of ILRUN expression in Sol8 whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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