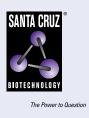
# SANTA CRUZ BIOTECHNOLOGY, INC.

# UNC93A (F-2): sc-390157



# BACKGROUND

UNC93A (UNC-93 homolog A), also known as HmUNC-93A, is a 457 amino acid multi-pass membrane protein and human homolog of *C. elegans* UNC-93, a protein involved in the coordination and regulation of muscle contraction. Expressed in testis, small intestine, spleen, prostate and ovary, UNC93A is encoded by a gene located on human chromosome 6q27. Human chromosome 6 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

- Makino, N., et al. 2001. Isolation and characterization of the human gene homologous to the *Drosophila* headcase (hdc) gene in chromosome bands 6q23-q24, a region of common deletion in human pancreatic cancer. DNA Seq. 11: 547-553.
- 2. Liu, Y., et al. 2002. The human homologue of UNC-93 maps to chromosome 6q27-characterisation and analysis in sporadic epithelial ovarian cancer. BMC Genet. 3: 20.
- 3. Mungall, A.J., et al. 2003. The DNA sequence and analysis of human chromosome 6. Nature 425: 805-811.
- 4. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 607995. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

## **CHROMOSOMAL LOCATION**

Genetic locus: UNC93A (human) mapping to 6q27; Unc93a (mouse) mapping to 17 A1.

### SOURCE

UNC93A (F-2) is a mouse monoclonal antibody raised against a peptide mapping near the C-terminus of UNC93A of human origin.

# PRODUCT

Each vial contains 200  $\mu g$  IgG\_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

UNC93A (F-2) is available conjugated to agarose (sc-390157 AC), 500  $\mu$ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-390157 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390157 PE), fluorescein (sc-390157 FITC), Alexa Fluor<sup>®</sup> 488 (sc-390157 AF488), Alexa Fluor<sup>®</sup> 546 (sc-390157 AF546), Alexa Fluor<sup>®</sup> 594 (sc-390157 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-390157 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-390157 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-390157 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390157 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

# **APPLICATIONS**

UNC93A (F-2) is recommended for detection of UNC93A of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 UNC93A siRNA (h): sc-95271, UNC93A siRNA (m): sc-154922, UNC93A shRNA Plasmid (h): sc-95271-SH, UNC93A shRNA Plasmid (m): sc-154922-SH, UNC93A shRNA (h) Lentiviral Particles: sc-95271-V and UNC93A shRNA (m) Lentiviral Particles: sc-154922-V.

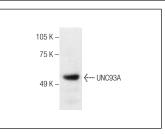
Molecular Weight of UNC93A: 60 kDa.

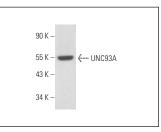
Positive Controls: HeLa whole cell lysate: sc-2200, EOC 20 whole cell lysate: sc-364187 or SK-MEL-28 cell lysate: sc-2236.

# **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<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### DATA





UNC93A (F-2): sc-390157. Western blot analysis of UNC93A expression in SK-MEL-28 whole cell lysate

UNC93A (F-2): sc-390157. Western blot analysis of UNC93A expression in EOC 20 whole cell lysate.

#### **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.

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