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TMEM192 (F-12): sc-518207

BACKGROUND

TMEM192 is a 271 amino acid protein encoded by a gene mapping to human chromosome 4. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMEM192 (human) mapping to 4q32.3.

SOURCE

TMEM192 (F-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 190-212 of TMEM192 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TMEM192 (F-12) is available conjugated to agarose (sc-518207 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518207 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518207 PE), fluorescein (sc-518207 FITC), Alexa Fluor® 488 (sc-518207 AF488), Alexa Fluor® 546 (sc-518207 AF546), Alexa Fluor® 594 (sc-518207 AF594) or Alexa Fluor® 647 (sc-518207 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518207 AF680) or Alexa Fluor® 790 (sc-518207 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

TMEM192 (F-12) is recommended for detection of TMEM192 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 TMEM192 siRNA (h): sc-89327, TMEM192 shRNA Plasmid (h): sc-89327-SH and TMEM192 shRNA (h) Lentiviral Particles: sc-89327-V.

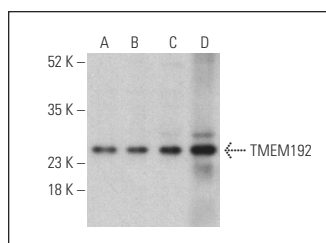
Molecular Weight of TMEM192: 31 kDa.

Positive Controls: U-87 MG Cell Lysate, sc-2411, HeLa whole cell lysate: sc-2200 or U-2 OS cell lysate: sc-2295.

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



TMEM192 (F-12): sc-518207. Western blot analysis of TMEM192 expression in U-87 MG (A), HeLa (B) and U-2 OS (C) whole cell lysates and human lung tissue extract (D). Detection reagent used: m-IgG₁ BP-HRP: sc-525408.

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 for detailed protocols and support products.