FAM213A (H-7): sc-390692



The Power to Question

BACKGROUND

FAM213A, also known as PAMM (peroxiredoxin-like 2 activated in M-CSF stimulated monocytes) or C10orf58, is a 229 amino acid cytoplasmic protein that belongs to the peroxiredoxin-like FAM213 family and FAM213A subfamily. FAM213A plays a role in redox regulation of the cell, acts as an antioxidant, and is induced by CSF1 in peripheral blood mononuclear cells (PBMCs). Existing as two alternatively spliced isoforms, the gene encoding FAM213A maps to human chromosome 10. Spanning nearly 135 million base pairs, chromosome 10 makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes.

REFERENCES

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- Jabs, E.W., et al. 1994. Jackson-Weiss and Crouzon syndromes are allelic with mutations in fibroblast growth factor receptor 2. Nat. Genet. 8: 275-279.
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- 4. Berger, P., et al. 2002. Molecular cell biology of Charcot-Marie-Tooth disease. Neurogenetics 4: 1-15.
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CHROMOSOMAL LOCATION

Genetic locus: FAM213A (human) mapping to 10q23.1; Fam213a (mouse) mapping to 14 B.

SOURCE

FAM213A (H-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 152-188 of FAM213A of human origin.

PRODUCT

Each vial contains 200 μg lgG_3 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-390692 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

FAM213A (H-7) is recommended for detection of FAM213A of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 FAM213A siRNA (h): sc-90705, FAM213A siRNA (m): sc-140383, FAM213A shRNA Plasmid (h): sc-90705-SH, FAM213A shRNA Plasmid (m): sc-140383-SH, FAM213A shRNA (h) Lentiviral Particles: sc-90705-V and FAM213A shRNA (m) Lentiviral Particles: sc-140383-V.

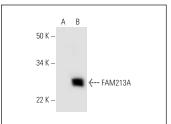
Molecular Weight of FAM213A isoforms: 25/26 kDa.

Positive Controls: FAM213A (m): 293T Lysate: sc-118039.

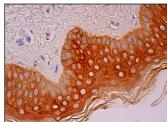
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-lgG κ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



FAM213A (H-7): sc-390692. Western blot analysis of FAM213A expression in non-transfected: sc-117752 (A) and mouse FAM213A transfected: sc-118039 (B) 293T whole cell lysates.



FAM213A (H-7): sc-390692. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of keratinocytes, Langerhans cells, and melanocytes

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.