

# FAM65B (3J7): sc-134289

## BACKGROUND

FAM65B, also known as C6orf32, DIFF28 or PL48, is a 1,068 amino acid protein that belongs to the FAM65 family. FAM65B exists as two alternatively spliced isoforms; isoform 1 is found in brain while isoform 2 is expressed in fetal primary myoblasts during differentiation. Isoform 2 may be important for cellular differentiation, filopodia formation and cytoskeletal rearrangement. Cells missing isoform 2 have a large reduction of myotube formation, yet overexpression induces filopodial formation. The gene encoding FAM65B maps to human chromosome 6, which 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

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## CHROMOSOMAL LOCATION

Genetic locus: FAM65B (human) mapping to 6p22.3.

## SOURCE

FAM65B (3J7) is a mouse monoclonal antibody raised against recombinant C6orf32 protein of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

FAM65B (3J7) is recommended for detection of FAM65B (full-length protein) 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 FAM65B siRNA (h): sc-95357, FAM65B shRNA Plasmid (h): sc-95357-SH and FAM65B shRNA (h) Lentiviral Particles: sc-95357-V.

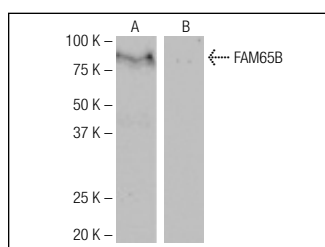
Molecular Weight of FAM65B: 119/66 kDa.

Positive Controls: human FAM65B transfected 293T whole cell lysate.

## 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, TBS Blotto A Blocking Reagent: sc-2333 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



FAM65B (3J7): sc-134289. Western blot analysis of FAM65B expression in human FAM65B transfected (A) and non-transfected (B) 293T whole cell lysates.

## 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](http://www.scbt.com) for detailed protocols and support products.