

# FAM123A (K-15): sc-84112

## BACKGROUND

The FAM123A (family with sequence similarity 123A) gene encodes for a 671 amino acid protein. There are two isoforms of FAM123A that exist as a result of alternative splicing events. The gene encoding FAM123A is located on chromosome 13, which comprises nearly 4% of human DNA and contains about 114 million base pairs and 400 genes. Key tumor suppressor genes on chromosome 13 include the breast cancer susceptibility gene, BRCA2, and the RB1 (retinoblastoma) gene. RB1 encodes a crucial tumor suppressor protein which, when defective, leads to malignant growth in the retina and has been implicated in a variety of other cancers. The gene SLITRK1, which is associated with Tourette syndrome, is on chromosome 13. As with most chromosomes, polysomy of part or all of chromosome 13 is deleterious to development and decreases the odds of survival.

## CHROMOSOMAL LOCATION

Genetic locus: AMER2 (human) mapping to 13q12.13; Fam123a (mouse) mapping to 14 D1.

## SOURCE

FAM123A (K-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of FAM123A of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84112 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

FAM123A (K-15) is recommended for detection of FAM123A of mouse, rat and 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)], 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).

FAM123A (K-15) is also recommended for detection of FAM123A in additional species, including porcine.

Suitable for use as control antibody for FAM123A siRNA (h): sc-105346, FAM123A siRNA (m): sc-108774, FAM123A shRNA Plasmid (h): sc-105346-SH, FAM123A shRNA Plasmid (m): sc-108774-SH, FAM123A shRNA (h) Lentiviral Particles: sc-105346-V and FAM123A shRNA (m) Lentiviral Particles: sc-108774-V.

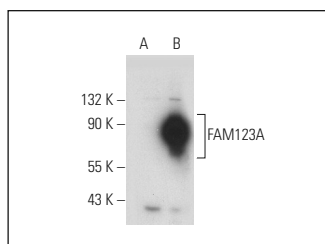
Molecular Weight of FAM123A: 70/58 kDa.

Positive Controls: FAM123A (h): 293T Lysate: sc-115267.

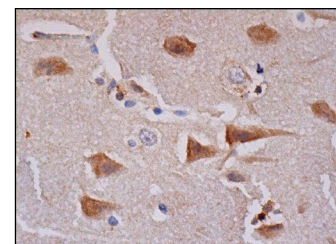
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), 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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



FAM123A (K-15): sc-84112. Western blot analysis of FAM123A expression in non-transfected: sc-117752 (A) and human FAM123A transfected: sc-115267 (B) 293T whole cell lysates.



FAM123A (K-15): sc-84112. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebral cortex tissue showing cytoplasmic staining of neuronal cells and glial cells.

## 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) or our catalog for detailed protocols and support products.



Try **FAM123A (G-1): sc-374654** or **FAM123A (B-2): sc-515471**, our highly recommended monoclonal alternatives to FAM123A (K-15).