

# FAM170A (I-19): sc-246629

## BACKGROUND

FAM170A (family with sequence similarity 170, member A), also known as ZNFD (zinc finger domain-containing protein), is a 330 amino acid protein containing one C<sub>2</sub>H<sub>2</sub>-type zinc finger. Existing as four alternatively spliced isoforms, FAM170A is encoded by a gene located on human chromosome 5q23.1. Chromosome 5 consists of 181 million base pairs and comprises nearly 6% of the human genome. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5-associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

## REFERENCES

1. Rauch, A. and Dörr, H.G. 2007. Chromosome 5q subtelomeric deletion syndrome. *Am. J. Med. Genet. C, Semin. Med. Genet.* 145C: 372-376.
2. Villa, N., et al. 2007. Fetal trisomy 5 mosaicism: case report and literature review. *Am. J. Med. Genet. A* 143A: 2343-2346.
3. Shadduck, R.K., et al. 2007. Recent advances in myelodysplastic syndromes. *Exp. Hematol.* 35: 137-143.
4. Falini, B., et al. 2007. Translocations and mutations involving the nucleophosmin (NPM1) gene in lymphomas and leukemias. *Haematologica* 92: 519-532.
5. Kristoffersen, K.E. 2008. Speech and language development in cri du chat syndrome: a critical review. *Clin. Linguist. Phon.* 22: 443-457.

## CHROMOSOMAL LOCATION

Genetic locus: FAM170A (human) mapping to 5q23.1.

## SOURCE

FAM170A (I-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FAM170A of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246629 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

FAM170A (I-19) is recommended for detection of FAM170A 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)], 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); non cross-reactive with FAM170.

FAM170A (I-19) is also recommended for detection of FAM170A in additional species, including canine.

Suitable for use as control antibody for FAM170A siRNA (h): sc-91645, FAM170A shRNA Plasmid (h): sc-91645-SH and FAM170A shRNA (h) Lentiviral Particles: sc-91645-V.

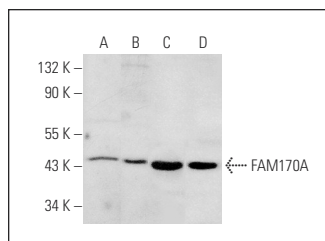
Molecular Weight of FAM170A isoforms 1/2/3/4: 37/32/28 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or Hs 732.Sk/Mu whole cell lysate: sc-364362.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



FAM170A (I-19): sc-246629. Western blot analysis of FAM170A expression in HeLa (A), Jurkat (B) and Hs 732.Sk/Mu (C) whole cell lysates and human testis tissue extract (D).

## RESEARCH USE

For research use only, not for use in diagnostic procedures.