SANTA CRUZ BIOTECHNOLOGY, INC.

# FAM76B (R-12): sc-167823

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11. The FAM76B gene product has been provisionally designated FAM76B pending further characterization.

## REFERENCES


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8. O'Connor, M.J., et al. 2007. Targeted cancer therapies based on the inhibition of DNA strand break repair. Oncogene 26: 7816-7824.
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## CHROMOSOMAL LOCATION

Genetic locus: FAM76B (human) mapping to 11q21; Fam76b (mouse) mapping to 9 A1.

## SOURCE

FAM76B (R-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FAM76B of rat origin.

## STORAGE

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

## 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-167823 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

FAM76B (R-12) is recommended for detection of FAM76B 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with FAM76A.

Suitable for use as control antibody for FAM76B siRNA (h): sc-96765, FAM76B siRNA (m): sc-108862, FAM76B shRNA Plasmid (h): sc-96765-SH, FAM76B shRNA Plasmid (m): sc-108862-SH, FAM76B shRNA (h) Lentiviral Particles: sc-96765-V and FAM76B shRNA (m) Lentiviral Particles: sc-108862-V.

Molecular Weight of FAM76B isoform 1: 39 kDa.

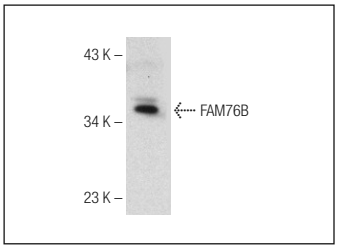
Molecular Weight of FAM76B isoform 2: 27 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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




FAM76B (R-12): sc-167823. Western blot analysis of FAM76B expression in HeLa whole cell lysate.

## RESEARCH USE

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