

# ABBA-1 (D-15): sc-169929

## BACKGROUND

ABBA-1 (actin-bundling with BAIAP2 homology protein 1), also known as MTSS1L (metastasis suppressor 1-like), is a 747 amino acid protein that contains one WH2 domain and one IMD domain and is thought to play a role in Actin bundling. Multiple isoforms of ABBA-1 exist due to alternative splicing events. The gene encoding ABBA-1 maps to human chromosome 16. Chromosome 16, which is associated with a variety of genetic disorders, encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

## REFERENCES

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3. Coupry, I., et al. 2004. Analysis of CBP (CREBBP) gene deletions in Rubinstein-Taybi syndrome patients using real-time quantitative PCR. *Hum. Mutat.* 23: 278-284.
4. Martin, J., et al. 2004. The sequence and analysis of duplication-rich human chromosome 16. *Nature* 432: 988-994.
5. Yamagishi, A., et al. 2004. A novel actin bundling/filopodium-forming domain conserved in Insulin receptor tyrosine kinase substrate p53 and missing in metastasis protein. *J. Biol. Chem.* 279: 14929-14936.
6. Demir, E., et al. 2005. Giant axonal neuropathy: clinical and genetic study in six cases. *J. Neurol. Neurosurg. Psychiatr.* 76: 825-832.
7. Rakha, E.A., et al. 2006. Chromosome 16 tumor-suppressor genes in breast cancer. *Genes Chromosomes Cancer* 45: 527-535.
8. Gervasini, C., et al. 2007. High frequency of mosaic CREBBP deletions in Rubinstein-Taybi syndrome patients and mapping of somatic and germ-line breakpoints. *Genomics* 90: 567-573.

## CHROMOSOMAL LOCATION

Genetic locus: MTSS1L (human) mapping to 16q22.1; Mtss1l (mouse) mapping to 8 E1.

## SOURCE

ABBA-1 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ABBA-1 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-169929 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ABBA-1 (D-15) is recommended for detection of ABBA-1 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 MTSS1.

ABBA-1 (D-15) is also recommended for detection of ABBA-1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ABBA-1 siRNA (h): sc-93008, ABBA-1 siRNA (m): sc-141640, ABBA-1 shRNA Plasmid (h): sc-93008-SH, ABBA-1 shRNA Plasmid (m): sc-141640-SH, ABBA-1 shRNA (h) Lentiviral Particles: sc-93008-V and ABBA-1 shRNA (m) Lentiviral Particles: sc-141640-V.

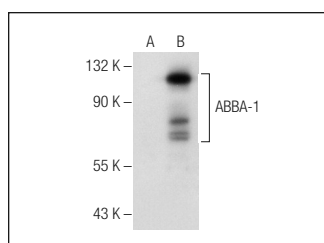
Molecular Weight of ABBA-1: 80 kDa.

Positive Controls: ABBA-1 (h): 293T Lysate: sc-159266.

## 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



ABBA-1 (D-15): sc-169929. Western blot analysis of ABBA-1 expression in non-transfected: sc-117752 (A) and human ABBA-1 transfected: sc-159266 (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.