

BET5 (K-14): sc-160164

BACKGROUND

Correct vesicular transport is essential to the survival of eukaryotic cells. The TRAPP I (transport protein particle I) multi-subunit complex resides on the Golgi apparatus and mediates the targeting of ER-to-Golgi vesicles. The complex is involved in the initial interaction between the vesicle and the target membrane, otherwise known as tethering, which is crucial to ensure specificity. As one of the 10 components of the TRAPP complex, BET5, also known as TRAPPC1 (trafficking protein particle complex subunit 1) and MUM2 (multiple myeloma protein 2), is a 145 amino acid protein that acts in conjunction with BET3 to mediate a late stage in ER-to-Golgi vesicular transport. The gene encoding BET5 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRAPPC1 (human) mapping to 17p13.1; Trappc1 (mouse) mapping to 11 B3.

SOURCE

BET5 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of BET5 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-160164 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BET5 (K-14) is recommended for detection of BET5 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 BET1 or BET3.

BET5 (K-14) is also recommended for detection of BET5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BET5 siRNA (h): sc-93679, BET5 siRNA (m): sc-141689, BET5 shRNA Plasmid (h): sc-93679-SH, BET5 shRNA Plasmid (m): sc-141689-SH, BET5 shRNA (h) Lentiviral Particles: sc-93679-V and BET5 shRNA (m) Lentiviral Particles: sc-141689-V.

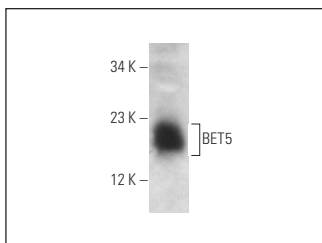
Molecular Weight of BET5: 18 kDa.

Positive Controls: mouse brain extract: sc-2253 or BET5 (h): 293T Lysate: sc-115229.

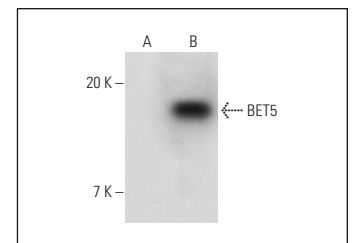
RECOMMENDED SECONDARY REAGENTS

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



BET5 (K-14): sc-160164. Western blot analysis of BET5 expression in mouse brain tissue extract.



BET5 (K-14): sc-160164. Western blot analysis of BET5 expression in non-transfected: sc-117752 (A) and human BET5 transfected: sc-115229 (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.