

TTC5 Antibody

TTC5: Tetratricopeptide repeat protein 5, TPR repeat protein 5

CATALOG NO.: 3053

BACKGROUND:

Tetratricopeptide repeat protein 5 (TTC5) is a member of a diverse group of functionally distinct proteins that are characterized by containing one or more tetratricopeptide repeats (1). Each motif consists of two anti-parallel α -helices such that tandem arrays of TPR motifs generate a right-handed helical structure with an amphipathic channel that may serve to accommodate the complementary region of a target protein. While the exact function of TTC5 remains unclear, it is thought that the TPR motifs serve to mediate protein-protein interactions such as those seen with protein chaperones HSP70 and HSP90 (2) and some proteins involved in cell stress response signaling pathways such as protein phosphatase 5 (3), suggesting that TTC5 may also function via protein-protein interactions mediated by its TPR motifs.

SOURCE:

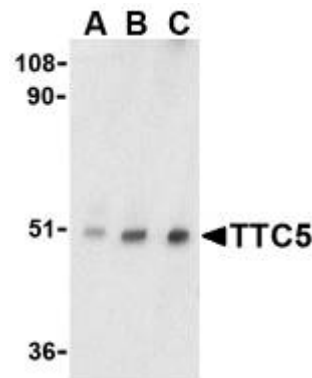
Rabbit polyclonal TTC5 antibody was raised against a 14 amino acid peptide from near the carboxy terminus of human TTC5 (Genbank accession No. Q8N0Z6).

STORAGE:

TTC5 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

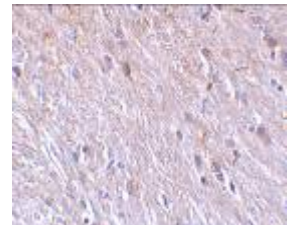
APPLICATION:

TTC5 antibody can be used for the detection of TTC5 by Western blot at 0.5 – 1 μ g/ml. (Optimal dilution should be determined by user). RAW264.7 cell lysate can be used as positive control. TTC5 antibody is human and mouse reactive. **This product is for research use only.**



Western blot analysis of TTC5 in RAW264.7 cell lysate with TTC5 antibody at (A) 0.5, (B) 1 μ g/ml and (C) 2 μ g/ml.

Immunohistochemistry of TTC5 in mouse brain tissue with TTC5 antibody at 10 μ g/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **3053P**.
RAW264.7 Cell Lysate, Catalog No. **1283**.

REFERENCES:

1. Blatch GL and Lassle M. The tetratricopeptide repeat: a structural motif mediating protein-protein interactions. *BioEssays* 1999; 21:932-9.
2. Song Y and Masison DC. Independent regulation of Hsp70 and Hsp90 chaperones by Hsp70/Hsp90-organizing protein Sti1 (Hop1). *J. Biol. Chem.* 2005; 280:34178-85.
3. Yang J, Roe SM, Cliff MJ, et al. Molecular basis for TPR domain-mediated regulation of protein phosphatase 5. *EMBO J.* 2005; 24:1-10. (07-01D)