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EB10954 - Goat Anti-HSPC117 (aa201-215) Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: C22orf28, chromosome 22 open reading frame 28, DJ149A16.6, RP1-149A16.6, hypothetical protein LOC51493, novel protein HSPC117
Official Symbol: RTCB
Accession Number(s): NP_055121.1
Human GeneID(s): 51493
Non-Human GeneID(s): 28088 (mouse), 362855 (rat)

Immunogen

Peptide with sequence C-QADPNKVSARAKKR, from the internal region of the protein sequence according to NP_055121.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.
Western blot: Approx. 55kDa band observed in lysates of cell lines Jurkat, HeLa, HepG2 and A431 and in Human Cerebellum and Ovary lysates (calculated MW of 55.2kDa according to NP_055121.1). Recommended concentration: 0.01-0.03µg/ml. Primary incubation 1 hour at room temperature.
IHC: In paraffin embedded Human Testis shows nuclear and vicinity staining in spermatogonia. Recommended concentration: 5-10µg/ml.

Immunofluorescence: Strong expression of the protein seen in A431 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human
Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

Specific Reference

This antibody has been successfully used in the following paper:
Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen
A high-throughput pipeline for validation of antibodies
Nat Methods. 2018 Nov;15(11):909-912
PMID: 30377371

EB10954 (0.01ug/ml) staining of Jurkat (A), HeLa (B), HepG2 (C) and A431 (D) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB10954 (0.03ug/ml) staining of Human Cerebellum (A) and Ovary (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB010954 (5µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB10954 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB10954 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.