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EB07290 - Goat Anti-GPR94 / TRA1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: TRA1, GRP94, tumor rejection antigen (gp96) 1, HGNC:12028, ECGP, GP96, Tumor rejection antigen-1 (gp96), endothelial cell (HBMEC) glycoprotein, glucose regulated protein, 94 kDa, tumor rejection antigen (gp96) 1
Official Symbol: HSP90B1
Accession Number(s): NP_003290.1
Human GeneID(s): 7184
Non-Human GeneID(s): 22027 (mouse), 362862 (rat)

Immunogen

Peptide with sequence C-KEGVKFDESEKTKE, from the internal region of the protein sequence according to NP_003290.1.

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 1:32000.
Western blot: Approx 100kDa band observed in lysates of cell lines HEK293, A549, HeLa, U2OS and NIH3T3 and in preliminary testing of MCF7 and HepG2 cell lysate (calculated MW of 92.5kDa according to Human NP_003290.1 and Mouse NP_035761.1). This molecular weight is routinely observed by other sources. Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature.
IHC: Paraffin embedded Human Uterus and Liver. Recommended concentration: 3-5µg/ml.

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

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

Species Reactivity

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

EB07290 (0.1µg/ml) staining of U2OS (A), HEK293 (B), HeLa (C) and (0.3ug/ml) A549 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminecence.

EB07290 (0.1µg/ml) staining of NIH3T3 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07290 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 Endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB07290 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB07290 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.

EB07290 (3.8µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB07290 (5µg/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer Ph 6, AP-staining.