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EB06523-T - Goat Anti-RXR alpha Antibody - Trial

Size: 20µg specific antibody in 40µl

Target Protein

Principal Names: RXRA, NR2B1, retinoid X receptor, alpha, FLJ16020, FLJ16733, MGC102720, FLJ00280, FLJ00318
Official Symbol: RXRA
Accession Number(s): NP_002948.1
Human GeneID(s): 6256
Important Comments: This antibody is expected to recognise an epitope corresponding to aa 14-28 of human RXR alpha protein and does not cross-react with either RXR beta or gamma.

Immunogen

Peptide with sequence CQVNSSLTSPTGRGSM, from the internal region of the protein sequence according to NP_002948.1.

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 55-60kDa band observed in nuclear lysates of cell lines HeLa and K562 (calculated MW of 50.8kDa according to NP_002948.1). This molecular weight is routinely observed by other sources and was successfully blocked by incubation with the immunizing peptide. Recommended concentration: 0.3-1µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the nuclei of HeLa and MCF7 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of MCF7 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human
Expected from sequence similarity: Human, Mouse, Rat

EB06523 (0.3µg/ml) staining of nuclear HeLa cell lysate (A) + peptide (B) and nuclear K562 cell lysate (C) + peptide (D). (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB06523 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB06523 Flow cytometric analysis of paraformaldehyde fixed MCF7 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.