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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB05639 - Goat Anti-Dynactin Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: DCTN1, dynactin 1 (p150, glued homolog, Drosophila), P135, DP-150, DAP-150, p150-glued, p150, Glued (Drosophila) homolog, 150 kDa dynein-associated polypeptide, dynactin 1 (p150, Glued (Drosophila) homolog), HMN7B, OTTHUMP00000202491, dynactin 1, p150, Glued homolog

Official Symbol: DCTN1

Accession Number(s): NP_004073.2; NP_075408.1; NP_001128512.1; NP_001128513.1; NP_001177765.1; NP_001177766.1

Human GeneID(s): [1639](#)

Non-Human GeneID(s): 13191 (mouse)

Important Comments: This antibody is expected to recognise all reported isoforms.

Immunogen

Peptide with sequence C-QEQLHQLHSRLIS, from the C Terminus of the protein sequence according to NP_004073.2; NP_075408.1; NP_001128512.1; NP_001128513.1; NP_001177765.1; NP_001177766.1.

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 1:128000.

Western blot: Approx 150kDa band observed in Human Cerebellum lysates (calculated MW of 142kDa according to NP_004073.2). Additional bands between approx. 40-70kDa were consistently observed, and all were successfully blocked by incubation with the immunizing peptide. Recommended concentration 1-2µg/ml. Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Rat Brain and Testis for this particular batch.

IHC: In paraffin embedded Human Cerebellum shows pixulate staining of cytoplasm in neuronal cells. Recommended concentration: 2-4µg/ml. A customer found positive results in IHC on Human HeLa cells.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of HeLa and U2OS cells. Recommended concentration: 10µg/ml. **Immunocytochemistry:** A customer found positive results in ICC on Mouse embryonic fibroblasts (MEF cells).

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

Species Reactivity

Tested: Human, Mouse

Expected from sequence similarity: Human, Mouse

EB05639 (1µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB05639 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 cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB05639 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB05639 Flow cytometric analysis of paraformaldehyde fixed HeLa 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.

EB05639 (2.5µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.