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EB07628 - Goat Anti-DIO2 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: DIO2, deiodinase, iodothyronine, type II, 5DII, D2, SelY, TXDI2, thyroxine deiodinase, type II, type 2 iodothyronine deiodinase, type II iodothyronine deiodinaseN: type-II 5\1deiodinase
Official Symbol: DIO2
Accession Number(s): NP_000784.2; NP_054644.1; NP_001007024.1
Human GeneID(s): 1734
Non-Human GeneID(s): 13371 (mouse), 65162 (rat)
Important Comments: This antibody is expected to recognise both reported isoform a (NP_000784.2 and NP_054644.1) and isoform b (NP_001007024.1).

Immunogen

Peptide with sequence EVKKHQNQEDRC, from the internal region of the protein sequence according to NP_000784.2; NP_054644.1; NP_001007024.1.

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.
IHC: Cryo-sectioned Mouse Brain (Hippocampus) shows staining in the granular layer of the dentate gyrus. Recommended concentration: 2-3µg/ml. Data obtained from customer.

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

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

Species Reactivity

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

EB07628 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.

EB07628 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 nuclear 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).

EB07628 (2µg/ml) staining of PFA-fixed cryo-sectioned Mouse Hippocampus. Microwaved antigen retrieval with citrate buffer pH 4.5, HRP-staining.