



## UK Office

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

## 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 EVKKHQEQEDRC, 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.

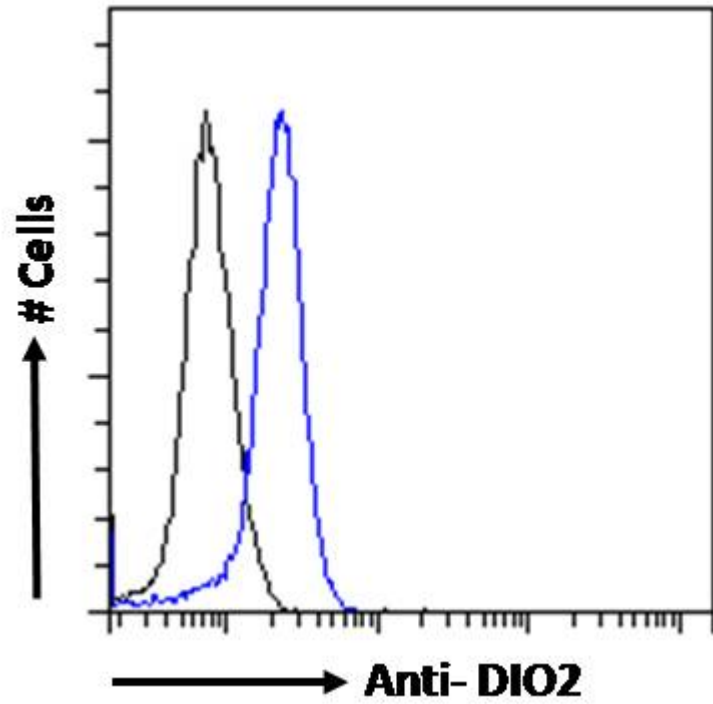
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm and nuclei of HeLa cells. Recommended concentration: 10µg/ml.

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

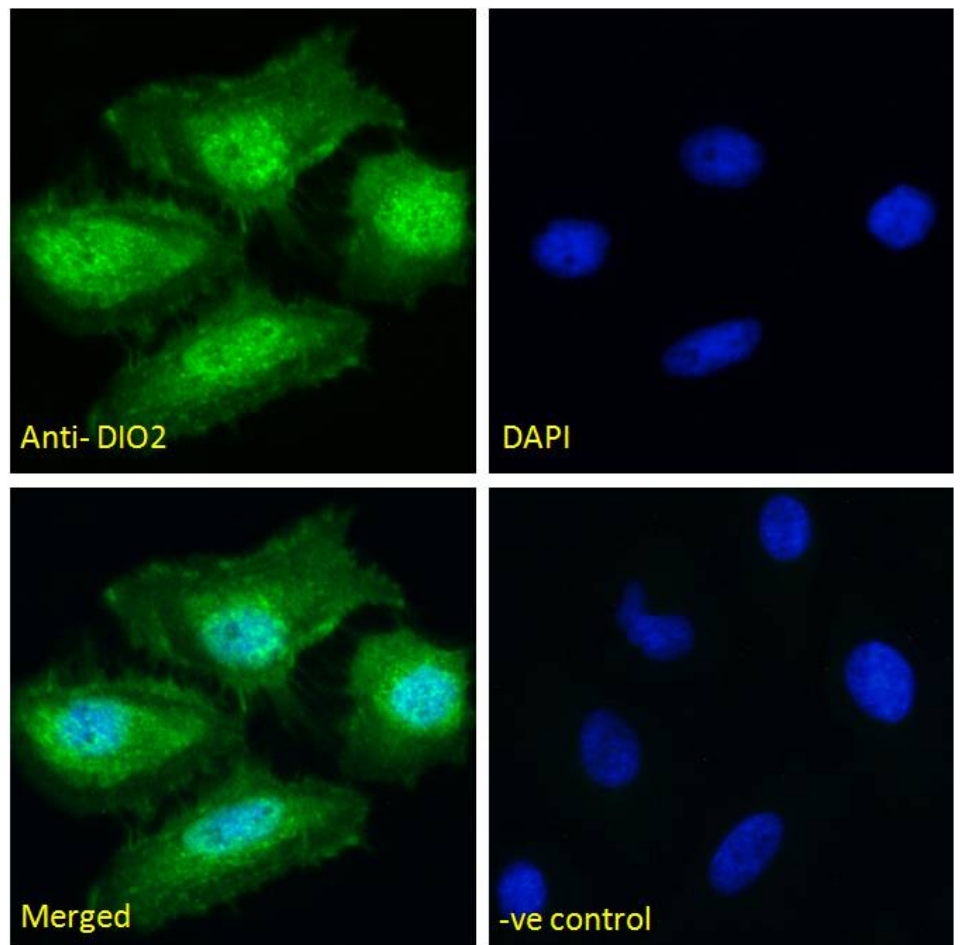
### Species Reactivity

**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 (2 $\mu$ g/ml) staining of PFA-fixed cryo-sectioned Mouse Hippocampus. Microwaved antigen retrieval with citrate buffer pH 4.5, HRP-staining.