Datasheet for ABIN190862

anti-DIO2 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	DIO2
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This DIO2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Purpose:	DIO2
Immunogen:	Peptide with sequence EVKKHQNQEDRC, from the internal region of the protein sequence according to NP_000784.2, NP_054644.1, NP_001007024.1.
Sequence:	EVKKHQNQED RC
Isotype:	IgG
Specificity:	This antibody is expected to recognise both reported isoform a (NP_000784.2 and NP_054644.1) and isoform b (NP_001007024.1).
Cross-Reactivity:	Human, Mouse, Pig, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Product Details

Grade:	Verified

Target Details

Target:	DIO2
Alternative Name:	DIO2 (DIO2 Products)
Background:	DIO2, deiodinase, iodothyronine, type II , 5DII, D2, SelY, TXDI2 , thyroxine deiodinase, type II, type 2 iodothyronine deiodinase, type II iodothyronine deiodinaseN: type-II 5'deiodinase
Gene ID:	1734, 13371, 65162
NCBI Accession:	NP_000784, NP_054644, NP_001007024
Pathways:	Hormone Transport, Hormone Activity

Application Details

Application Notes:	Immunohistochemistry: Cryo-sectioned Mouse Brain (Hippocampus) shows staining in the granular layer of the dentate gyrus. Recommended concentration: 2-3 µg/mL. Data obtained from customer. Peptide ELISA: antibody detection limit dilution 1:128000.
Comment:	**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 concentratio
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.

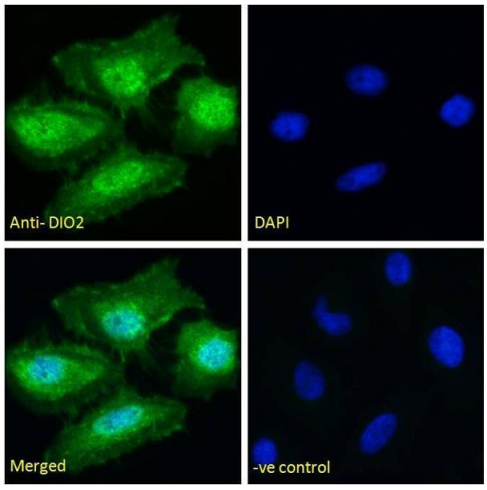
Handling

Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Publications

Product cited in:	Ma, Brouwer, Wesseling, Raj, van der Want, Boddeke, Balasubramaniyan, Copray: "Multipotent stem cell factor UGS148 is a marker for tanycytes in the adult hypothalamus." in: **Molecular and cellular neurosciences**, Vol. 65, pp. 21-30, (2015) (PubMed).

Images

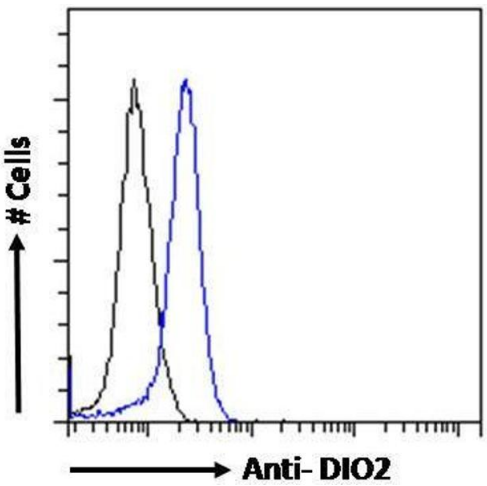


Immunofluorescence

Image 1. ABIN190862 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).

Immunohistochemistry

Image 2. ABIN190862 (2µg/ml) staining of PFA-fixed cryo-sectioned Mouse Hippocampus. Microwaved antigen retrieval with citrate buffer pH 4.5, HRP-staining.



Flow Cytometry

Image 3. ABIN190862 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.