

# Product Datasheet

## DIO2 Antibody NBP1-00178

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-00178**

DIO2 Antibody

Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

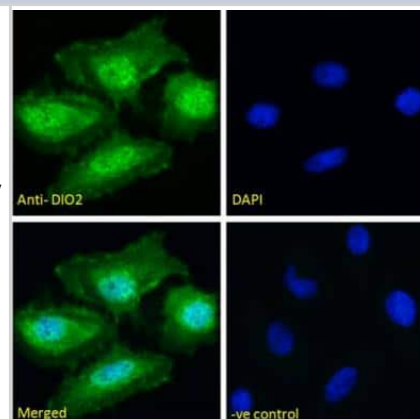
Product Description	
<b>Description</b>	Novus Biologicals Goat DIO2 Antibody (NBP1-00178) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-DIO2 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	1734
<b>Gene Symbol</b>	DIO2
<b>Species</b>	Human, Mouse, Sheep
<b>Reactivity Notes</b>	Use in Sheep reported in scitific publication PMID: 32403966
<b>Specificity/Sensitivity</b>	This antibody is expected to recognise both reported isoform a (NP_000784.2 and NP_054644.1) and isoform b (NP_001007024.1).
<b>Immunogen</b>	Peptide with sequence EVKKHQEQEDRC corresponding to internal region according to NP_054644.1, NP_001007024.1.

Product Application Details	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry 10 ug/ml, Immunohistochemistry 2 - 3 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunohistochemistry-Frozen 2 - 3 ug/ml, Peptide ELISA Detection limit 1:128000



## Images

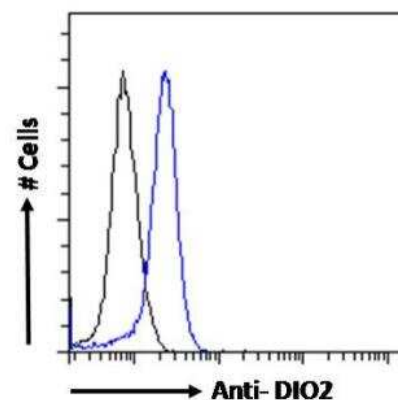
Immunocytochemistry/Immunofluorescence: DIO2 Antibody [NBP1-00178] - Analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry-Frozen: DIO2 Antibody [NBP1-00178] - IHC analysis of DIO2 in cryo-sectioned Mouse Hippocampus using NBP1-00178 at 2ug/ml. Microwaved antigen retrieval with citrate buffer pH 4.5, HRP-staining.



Flow Cytometry: DIO2 Antibody [NBP1-00178] - 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



## Publications

Wu J, Huang J, Yan Z et al. High TSH levels during TSH suppression therapy in DTC postoperative patients are associated with low DIO2 expression in the thyroid and impaired thyroid hormone sensitivity *Frontiers in endocrinology* 2025-10-01 [PMID: 41103641]

AC Guénantin, N Briand, E Capel, F Dumont, R Morichon, C Provost, F Stillitano, D Jeziorowski, JP Siffroi, RJ Hajjar, B Fève, JS Hulot, P Collas, J Capeau, C Vigouroux Functional Human Beige Adipocytes from Induced Pluripotent Stem Cells *Diabetes*, 2017-03-07;0(0):. 2017-03-07 [PMID: 28270520]

Devalraju Kp, Tripathi D, Neela Vsk Et Al. Reduced thyroxine production in young household contacts of tuberculosis patients increases active tuberculosis disease risk *JCI insight* 2021-07-08 [PMID: 34236051] (WB)

Myers DA, Singleton K, Hyatt K et al. Long term hypoxia during gestation alters perirenal adipose tissue gene expression in the lamb *Adipocyte* 2020-12-01 [PMID: 32403966] (WB, Sheep)

Zuo Z, Liu Z, Gao T et al. Prolonged inorganic arsenic exposure via drinking water impairs brown adipose tissue function in mice *Sci. Total Environ.* 2019-06-10 [PMID: 30852208] (WB, Mouse)

Kishida T, Ejima A, Yamamoto K et al. Reprogrammed Functional Brown Adipocytes Ameliorate Insulin Resistance and Dyslipidemia in Diet-Induced Obesity and Type 2 Diabetes. *Stem Cell Reports* 2015-09-09 [PMID: 26365511] (ICC/IF, Human, Mouse)

Gumieniak O, Perlstein TS, Williams JS et al. Ala92 Type 2 Deiodinase Allele Increases Risk for the Development of Hypertension. *Hypertension* 2007-01-15 [PMID: 17224473]

Vose LR, Vinukonda G, Jo S et al. Treatment with thyroxine restores myelination and clinical recovery after intraventricular hemorrhage. *J Neurosci.* 2013-10-30 [PMID: 24174657] (ICC/IF, IF/IHC, Human)

Langford D, Baron D, Joy J et al. Contributions of HIV infection in the hypothalamus and substance abuse/use to HPT dysregulation *Psychoneuroendocrinology* 2011-06-01 [PMID: 21115295] (WB, Human)





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General: novus@novusbio.com

### **Products Related to NBP1-00178**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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