

Product Datasheet

ITPR2 Antibody NB100-2466

Unit Size: 0.1 mg

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

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NB100-2466**ITPR2 Antibody**

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

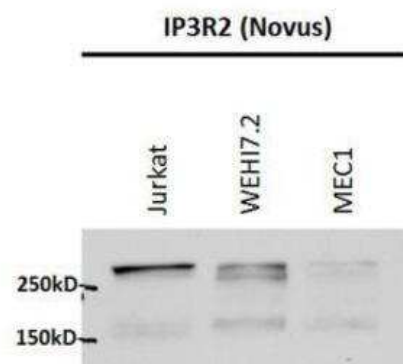
Product Description	
Description	Novus Biologicals Goat ITPR2 Antibody (NB100-2466) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-ITPR2 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	3709
Gene Symbol	ITPR2
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 25921245). Mouse reactivity reported scientific literature (PMID: 20814235). Predicted cross-reactivity based on sequence identity: Canine, Bovine.
Specificity/Sensitivity	No cross-reactivity expected with other types of ITPR.
Immunogen	Peptide with sequence C-PIEESNILSPVQD corresponding to internal region according to NP_002214.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 3.75 ug/ml, Peptide ELISA Detection limit 1:128000
Application Notes	WB: Preliminary experiments gave an approx. 28-30 kDa band in human heart lysates after 0.1 ug/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 308 kDa band according to NP_002214.2. The 28-30 kDa band was successfully blocked by incubation with the immunizing peptide. IHC: Paraffin embedded Human Kidney, Skin and Heart. Use in Immunocytochemistry/immunofluorescence reported in multiple pieces of scientific literature.

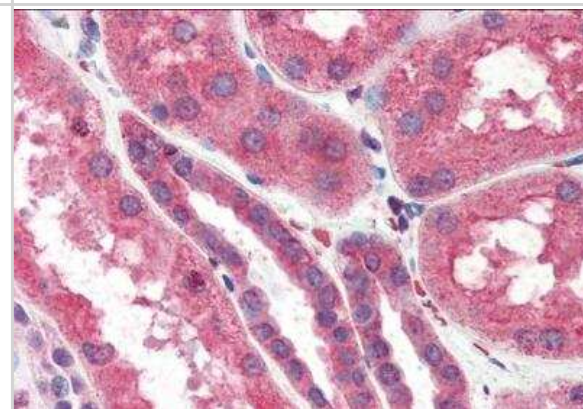


Images

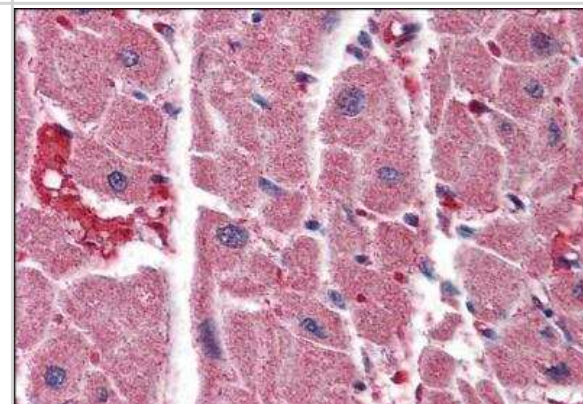
Western Blot: ITPR2 Antibody [NB100-2466] - 2 sec exposure using NB100-2466 on 80 ug total cell lysates listed above. Primary antibody applied at 1:500 overnight at 4degC, secondary donkey anti-goat applied for 2 hours at room temperature at 1:5000. (Data provided by Karen McColl at Case Western Reserve University)



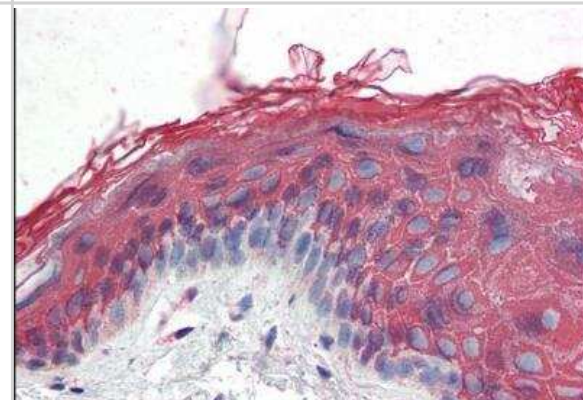
Immunohistochemistry-Paraffin: ITPR2 Antibody [NB100-2466] - (3.75ug/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Immunohistochemistry-Paraffin: ITPR2 Antibody [NB100-2466] - (3.75ug/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Immunohistochemistry-Paraffin: ITPR2 Antibody [NB100-2466] - (3.75ug/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Publications

Kaufman AM Non-canonical members of circuits: A role for the locus coeruleus in reward related place field plasticity, and investigating differences in astrocyte calcium signaling between hippocampal layers Thesis 2020-01-01 (ICC/IF, Mouse)

Olivares-Florez S, Czolbe M, Riediger F et al. Nuclear calcineurin is a sensor for detecting Ca²⁺ release from the nuclear envelope via IP3R. J. Mol. Med. 2018-11-01 [PMID: 30293136] (ICC/IF, Mouse)

Liu F, Li Zf, Wang Zy, Wang L. Role of subcellular calcium redistribution in regulating apoptosis and autophagy in cadmium-exposed primary rat proximal tubular cells. J. Inorg. Biochem. 2016-09-14 [PMID: 27665314] (WB)

Futatsugi A, Nakamura T, Yamada MK et al. IP3 receptor types 2 and 3 mediate exocrine secretion underlying energy metabolism. Science 2005-09-30 [PMID: 16195467]

Wang H, Wang ZK, Jiao P et al. Redistribution of subcellular calcium and its effect on apoptosis in primary cultures of rat proximal tubular cells exposed to lead Toxicology 2015-04-25 [PMID: 25921245] (WB, Rat)

Ljubojevic S, Radulovic S, Leitinger G et al. Early Remodelling of Perinuclear Ca²⁺ Stores and Nucleoplasmic Ca²⁺ Signalling During the Development of Hypertrophy and Heart Failure. Circulation. 2014-06-13 [PMID: 24928680] (ICC/IF, WB, Mouse, Human)

Details:

In this study involving hypertrophy and heart failure models, goat polyclonal anti-IP3R2 antibody from Novus Biologicals (ITPR2 antibody, NB100-2466) was used for ICC-IF immunostaining of Human and Mouse cardiomyocytes isolated from nonfailing and failing hearts (Figure 2 B). Antibody also used for WB in human heart homogenate (Figure S5C) and for immunogold labeling/transmission immuno-electron microscopy in mouse hearts (Figure 2 D).

Harr MW, McColl KS, Zhong F et al. Glucocorticoids downregulate Fyn and inhibit IP(3)-mediated calcium signaling to promote autophagy in T lymphocytes Autophagy 2010-10-01 [PMID: 20814235] (WB, Mouse)





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Products Related to NB100-2466

NB100-2466PEP	ITPR2 Antibody Blocking Peptide
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

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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