

# Product Datasheet

## Orai1 Antibody (3F6H5) - BSA Free NBP1-75522

Unit Size: 0.1 mg

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

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**NBP1-75522**

Orai1 Antibody (3F6H5) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at -20 degrees C. Avoid freeze/thaw cycles.
Clonality	Monoclonal
Clone	3F6H5
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	56 kDa

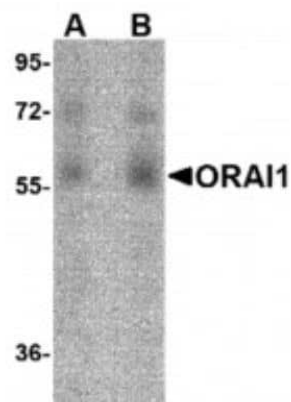
Product Description	
Host	Mouse
Gene ID	84876
Gene Symbol	ORAI1
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	ORAI1 antibody is predicted to have no cross reactivity to other members in the ORAI family.
Immunogen	Antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human ORAI1.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, In-situ Hybridization, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 2.5 ug/ml, Immunohistochemistry-Frozen, Proximity Ligation Assay, In-situ Hybridization
Application Notes	Use in In-situ Hybridization reported in scientific literature (PMID: 27535226). Use in Proximity ligation assay reported in scientific literature (PMID: 30018568). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID:32199855).

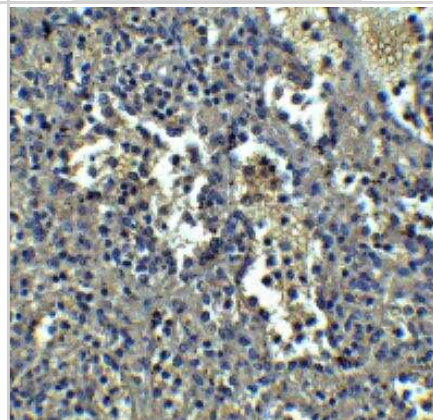


## Images

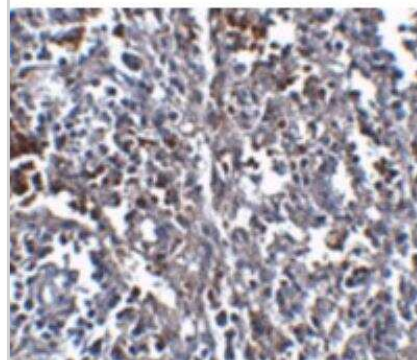
Western Blot: Orai1 Antibody (3F6H5) [NBP1-75522] - analysis of ORAI1 in human ovary tissue lysate with ORAI1 antibody at (A) 1 and (B) 2 ug/mL.



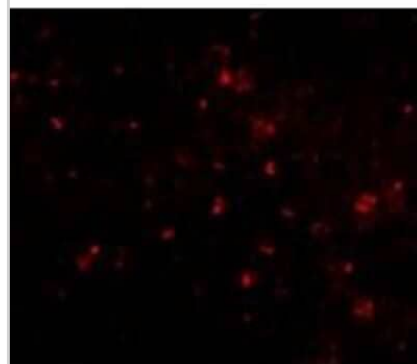
Immunohistochemistry-Paraffin: Orai1 Antibody (3F6H5) [NBP1-75522] - Human spleen tissue with ORAI1 antibody at 5 ug/mL.



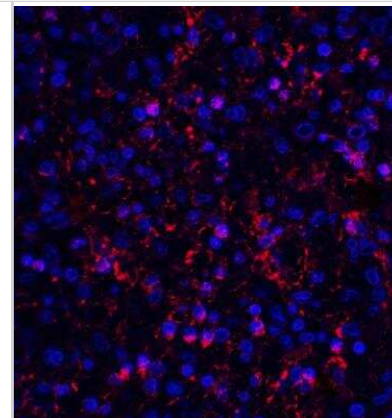
Immunohistochemistry-Paraffin: Orai1 Antibody (3F6H5) [NBP1-75522] - ORAI1 in human spleen tissue with ORAI1 antibody at 2.5 ug/mL



Immunohistochemistry: Orai1 Antibody (3F6H5) [NBP1-75522] - ORAI1 in human spleen tissue with ORAI1 antibody at 20 ug/ml.



Immunohistochemistry: Orai1 Antibody (3F6H5) [NBP1-75522] - Human spleen tissue with ORAI1 antibody at 20 ug/ml. Red: ORAI1 Antibody [3F6H5] (NBP1-75522). Blue: DAPI staining



## Publications

Szabó V, Csákány-Papp N, Görög M et al. Orai1 calcium channel inhibition prevents progression of chronic pancreatitis JCI insight 2023-05-25 [PMID: 37227782] (IHC-P, Human, Mouse)

Details:

Dilution 1:200

Sevilleja-Ortiz A, El Assar M, Garcia-Rojo E et al. Enhanced Contribution of Orai Channels to Contractility of Human Penile Smooth Muscle in Erectile Dysfunction J Sex Med 2020-03-18 [PMID: 32199855] (IHC-Fr)

Dominguez-Rodriguez A, Mayoral-Gonzalez I, Avila-Medina J et al. Urocortin-2 Prevents Dysregulation of Ca<sup>2+</sup> Homeostasis and Improves Early Cardiac Remodeling After Ischemia and Reperfusion. Front Physiol 2018-07-03 [PMID: 30018568] (PLA, WB, Rat)

Avila-Medina J, Calderon-Sanchez E, Gonzalez-Rodriguez P et al. Orai1 and TRPC1 colocalize with CaV1.2 channels to form a signal complex in vascular smooth muscle cells. J. Biol. Chem. 2016-08-17 [PMID: 27535226] (ISH, Mouse)

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**Products Related to NBP1-75522**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-76762PEP	Orai1 Antibody Blocking Peptide

**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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