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Datasheet for 600-401-FZ3

Wnt10a Antibody

Overview

Description:	Anti-Wnt10a (RABBIT) Antibody - 600-401-FZ3
Item No.:	600-401-FZ3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Wnt10a is a member of the Wnt family, a gene family that encodes secreted signaling proteins that play crucial roles in normal development such as regulation of cell fate and patterning during embryogenesis as well as neoplastic transformation. Elevated levels of Wnt10a have been detected in several human tumors and cancer cell lines including colorectal cancer and chronic lymphocytic leukemia and it has been suggested that uncontrolled Wnt signaling may contribute to the defect in apoptosis that characterizes these malignancies. Recently, a mutation in Wnt10a was found to be associated with odonto-onycho-dermal dysplasia, an autosomal recessive ectodermal dysplasia.
Synonyms:	Wnt10a Antibody, OODD, SSPS, STHAG4, Protein Wnt-10a
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	WNT10A
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Wnt10a antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the C-terminus of human Wnt10a. The immunogen is located within amino acids 300 - 350 of Wnt10a.

Purity/Specificity:	Anti-Wnt10a Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Despite the high homology of Wnt10a to Wnt10b, this Wnt10a antibody will not cross-react with Wnt10b.
Relevant Links:	• UniProtKB - Q9GZT5 • GeneID - 80326 • NCBI - NP_079492.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Wnt10a Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry-P, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 46 kDa in Western Blots of specific cell lysates and tissues. Positive control: RAW 264.7 cell lysate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5-10 µg/mL
WB:	1-2 µg/mL

Formulation

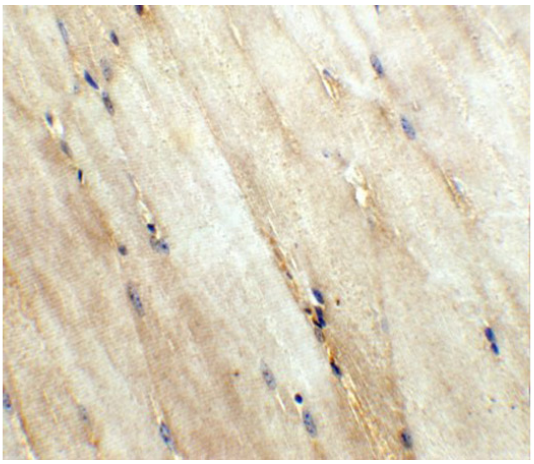
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

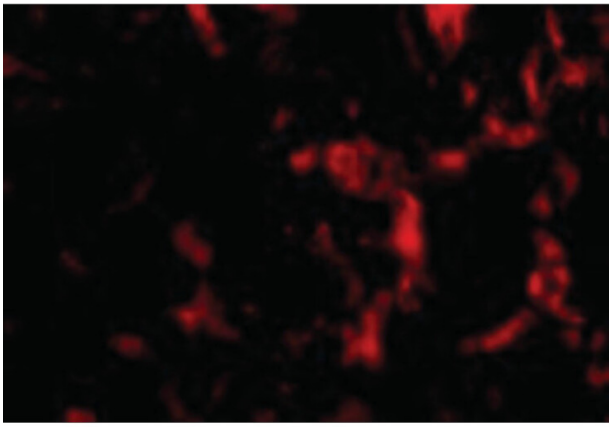
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

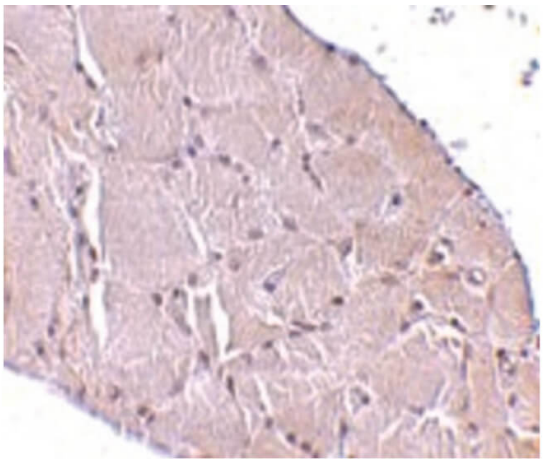
Images



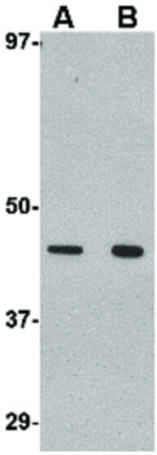
Immunohistochemistry
Immunohistochemistry of Wnt10a.
Tissue: mouse skeletal muscle tissue.
Primary Antibody: Wnt10a antibody at 5 µg/ml.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Wnt10a antibody. Tissue: Human skeletal muscle tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Wnt10a antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Wnt10a as a red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of Wnt10a antibody. Tissue: Human skeletal muscle tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Wnt10a antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Wnt10a is nuclear and occasionally cytoplasmic. Staining: Wnt10a as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of Wnt10a antibody.
Load: 35 µg RAW264.7 cell lysate per lane.
Primary Antibody: Anti-Wnt10a at (Lane A: 1µg/mL. Lane B: 2µg/mL) 1h incubation at RT in 5% NFDM/TBST.
Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000.
Predicted/Observed size: 380.1 kDa, ~40 kDa for Wnt10a.

Disclaimer

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