

Product datasheet

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ARG56971 anti-Wnt3a antibody [3A6]

Package: 50 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [3A6] recognizes Wnt3a

Tested Reactivity Hu

Tested Application IHC-P, WB
Host Mouse

Clonality Monoclonal

Clone 3A6

Isotype IgG2a, kappa

Target Name Wnt3a
Species Human

Immunogen Recombinant fragment around aa. 19-352 of Human Wnt3a.

Conjugation Un-conjugated

Alternate Names Protein Wnt-3a

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50
	WB	1:1000 - 1:2000
	IHC-P: Antigen Retrieval: Boil tissue section in 0.1M Sodium citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 10% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 89780 Human

Swiss-port # P56704 Human

Gene Symbol WNT3A

Gene Full Name wingless-type MMTV integration site family, member 3A

Background The WNT gene family consists of structurally related genes which encode secreted signaling proteins.

These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. It encodes a protein which shows 96% amino acid identity to mouse Wnt3A protein, and 84% to human WNT3 protein, another WNT gene product. This gene is clustered with WNT14 gene, another

family member, in chromosome 1q42 region. [provided by RefSeq, Jul 2008]

Function Ligand for members of the frizzled family of seven transmembrane receptors. Wnt-3 and Wnt-3a play

distinct roles in cell-cell signaling during morphogenesis of the developing neural tube. [UniProt]

Calculated Mw 39 kDa

PTM Palmitoleylation by PORCN is required for efficient binding to frizzled receptors. Palmitoleylation is required for proper trafficking to cell surface, vacuolar acidification is critical to release palmitoleylated

bond formation and oligomerization (PubMed:25731175).

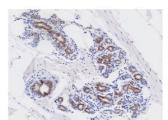
WNT3A from WLS in secretory vesicles (PubMed:20826466, PubMed:21244856, PubMed:24292069). Depalmitoleylated by NOTUM, leading to inhibit Wnt signaling pathway, possibly by promoting disulfide

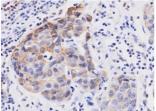
Proteolytic processing by TIKI1 and TIKI2 promotes oxidation and formation of large disulfide-bond oligomers, leading to inactivation of WNT3A.

Disulfide bonds have critical and distinct roles in secretion and activity. Loss of each conserved cysteine in WNT3A results in high molecular weight oxidized Wnt oligomers, which are formed through inter-

Wnt disulfide bonding.

Images

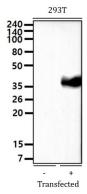




Human breast cancer tissue

ARG56971 anti-Wnt3a antibody [3A6] IHC-P image

Immunohistochemistry: Paraffin embedded sections of Human breast cancer tissue stained with ARG56971 anti-Wnt3a antibody [3A6] at 1:50 for 2 hours at RT. Antigen Retrieval: Boil tissue section in 0.1M Sodium citrate buffer (pH 6.0) for 20 min.



ARG56971 anti-Wnt3a antibody [3A6] WB image

Western blot: 293T cells untransfected (left) or transfected by Wnt3a (right). 40 μ g of cell lysates stained with ARG56971 anti-Wnt3a antibody [3A6] at 1:1000 dilution.