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Wnt10a Antibody

Catalog # ASC10708

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9GZT5
Other Accession	Q9GZT5, 14424011
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	46444
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Wnt10a antibody can be used for detection of Wnt10a by Western blot at 1 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 10 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	80326
Other Names	Protein Wnt-10a, WNT10A
Target/Specificity	WNT10A; This Wnt10a antibody is predicted to not cross-react with Wnt10b.
Reconstitution & Storage	Wnt10a antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Wnt10a Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	WNT10A
Function	Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt/beta-catenin signaling pathway (By similarity). Plays a role in normal ectoderm development (PubMed:17847007, PubMed:28589954). Required for normal tooth development (PubMed:17847007, PubMed:28589954, PubMed:29178643). Required for normal postnatal development and maintenance of tongue papillae and sweat ducts (PubMed:28589954). Required for normal proliferation of basal cells in tongue filiform papillae, plantar epithelium and sweat ducts. Required for normal expression of keratins in tongue papillae (By similarity). Required for normal expression of KRT9 in foot plant

	epithelium (PubMed:28589954). Required for normal hair follicle function (PubMed:28589954).
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted

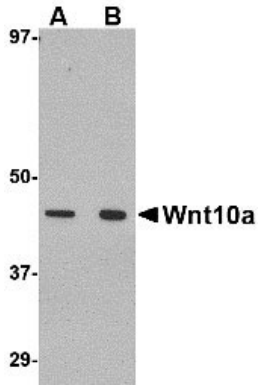
Background

Wnt10a Antibody: 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.

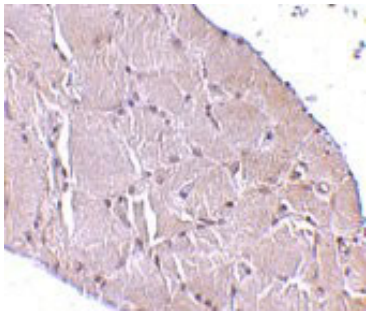
References

Kelly GM, Lai CJ, and Moon RT. Expression of wnt10a in the central nervous system of developing zebrafish. Dev. Biol. 1993; 158:113-21.
Nusse R and Varmus RE. Wnt genes. Cell 1992; 69:1073-87.
Kirikoshi H, Sekihara H, and Katoh M. WNT10A and WNT6, clustered in human chromosome 2q35 region head-to-tail manner, are strongly coexpressed in SW480 cells. Biochem. Biophys. Res. Commun. 2001; 283:798-805.
Kirikoshi H, Inoue S, Sekihara H, et al. Expression of WNT10A in human cancer. Int. J. Oncol. 2001; 19:997-1001.

Images

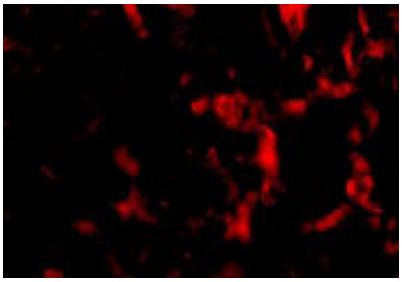


Western blot analysis of Wnt10a in RAW264.7 cell lysate with Wnt10a antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of Wnt10a in human skeletal muscle tissue with Wnt10a antibody at 10 µg/mL.

Immunofluorescence of Wnt10a in Human Skeletal Muscle tissue with Wnt10a antibody at 20 µg/mL.



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