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NOTUM Rabbit pAb

Catalog # AP98135

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q6P988
Other Accession	Q6P988
Predicted	Rat, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55699
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NOTUM
Epitope Specificity	351-450/496
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the pectinacetylesterase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Notum is a 496 amino acid secreted protein that belongs to the pectinacetylesterase family and may deacetylate GlcNAc residues on cell surface glycans. The gene that encodes Notum consists of approximately 9,334 bases and maps to human chromosome 17q25.3. Encoding more than 1,200 genes, chromosome 17 comprises over 2.5% of the human genome. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of ovary, colon, prostate gland and fallopian tubes.

Additional Information

Gene ID	147111
Other Names	hNOTUM; 5730593N15Rik; RGD1307119; NOTUM_HUMAN; NOTUM; 3.1.1.98; NOTUM_MOUSE; notum, palmitoleoyl-protein carboxylesterase; notum pectinacetylesterase homolog (Drosophila); [Wnt protein] O-palmitoleoyl-L-serine hydrolase
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NOTUM (HGNC:27106)
Function	Carboxylesterase that acts as a key negative regulator of the Wnt signaling pathway by specifically mediating depalmitoleoylation of WNT proteins. Serine palmitoleoylation of WNT proteins is required for efficient binding to frizzled receptors (PubMed:25731175).
Cellular Location	Secreted {ECO:0000250|UniProtKB:Q9VUX3}.
Tissue Location	Rarely expressed in adult normal tissues.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.