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SBNO1 Rabbit pAb

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Catalog # AP56627

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	A3KN83
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Zebrafish, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	154312
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SBNO1
Epitope Specificity	331-430/1393
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SBNO1 is a 1,392 amino acid protein encoded by the human gene of the same name located on chromosome 12. Encoding over 1,100 genes within 132 million bases, chromosome 12 makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Noonan syndrome, which includes heart and facial developmental defects among the primary symptoms, is caused by a mutant form of PTPN11 gene product, SH-PTP2. Chromosome 12 is also home to a homeobox gene cluster, which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster, encoding C-type lectin proteins which mediate the NK cell response to MHC I interaction. Trisomy 12p leads to facial development defects, seizure disorders and a host of other symptoms which vary in severity depending on the extent of mosaicism. It is most severe in cases of complete trisomy.

Additional Information

Gene ID	55206
Other Names	Protein strawberry notch homolog 1, Monocyte protein 3, MOP-3, SBNO1, MOP3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	SBNO1
Synonyms	MOP3
Function	Plays a crucial role in the regulation of neural stem cells (NSCs) proliferation. Enhances the phosphorylation of GSK3B through the PI3K-Akt signaling pathway, thereby upregulating the Wnt/beta-catenin signaling pathway and promoting the proliferation of NSCs. Improves ischemic stroke recovery while inhibiting neuroinflammation through small extracellular vesicles (sEVs)-mediated mechanism. Enhances the secretion of sEVs from NSCs, which in turn inhibit both the MAPK and NF-kappaB pathways in microglia. This inhibition suppresses the pro- inflammatory M1 polarization of microglia, promoting a shift towards the M2 anti-inflammatory phenotype, which is beneficial for reducing neuroinflammation.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q689Z5}.

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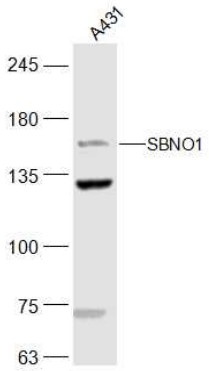
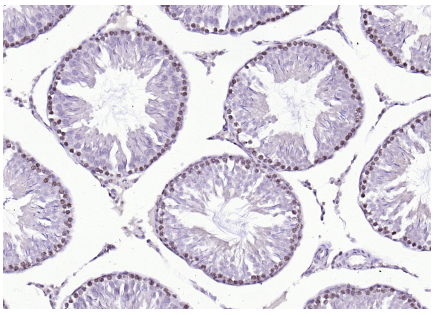
Images



Sample:
A431(Human) Cell Lysate at 30 ug
Primary: Anti-SBNO1 (AP56627) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 154 kD
Observed band size: 154 kD



Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SBNO1) Polyclonal Antibody, Unconjugated (AP56627) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.