10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SBNO2 Rabbit pAb

Catalog # AP97445

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y2G9
Other Accession	Q9Y2G9
Reactivity	Mouse
Predicted	Rat, Pig, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	150275
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SBNO2
Epitope Specificity	1041-1140/1366
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	SBNO2 is a 1,366 amino acid protein that belongs to the SBNO family. Detected in macrophages, SBNO2 seems to have transcriptional repression activity. SBNO2 and ETV3 are components of the pathways that contribute to the downstream anti-inflammatory effects of IL-10. The expression of SBNO2 is regulated by IL-10 in a STAT3-dependent way. Existing as two alternatively spliced isoforms, the SBNO2 gene is conserved in chimpanzee, dog, cow, mouse, rat, chicken, zebrafish and C.elegans, and maps to human chromosome 19p13.3. GPx-4 and LKB1 are neighbors of SBNO2 on chromosome 19. Chromosome 19 consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and insulin-dependent diabetes have been linked to chromosome 19.

Additional Information

Gene ID	22904
Other Names	KIAA0963; SNO; STNO; SBNO2_HUMAN; SBNO2; strawberry notch homolog 2; strawberry notch homolog 2 (Drosophila)
Dilution	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	SBNO2
Synonyms	KIAA0963
Function	Acts as a transcriptional coregulator, that can have both coactivator and corepressor functions. Inhibits the DCSTAMP-repressive activity of TAL1, hence enhancing the access of the transcription factor MITF to the DC-STAMP promoter in osteoclast. Plays a role in bone homeostasis; required as a positive regulator in TNFSF11//RANKL- mediated osteoclast fusion via a DCSTAMP-dependent pathway. May also be required in the regulation of osteoblast differentiation (By similarity). Involved in the transcriptional corepression of NF-kappaB in macrophages (PubMed:18025162). Plays a role as a regulator in the pro-inflammatory cascade (PubMed:18025162).
Tissue Location	Detected in macrophages. IL10 regulates expression in a STAT3-dependent way.

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