PROK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PROK2, Polyclonal Antibody
Full Product Name	PROK2 Rabbit pAb
Product Gene Name	anti-PROK2 antibody
Product Synonym Names	BV8; HH4; PK2; KAL4; MIT1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	17kDa
OMIM	607002
3D Structure	ModBase 3D Structure for Q9HC23
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 20-129 of human PROK2 (NP_001119600.1).
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PROK2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PROK2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:100
Related Product Information for anti-PROK2 antibody	May function as an output molecule from the suprachiasmatic nucleus (SCN) that transmits behavioral circadian rhythm. May also function locally within the SCN to synchronize output. Potently contracts gastrointestinal (GI) smooth muscle.
Other Notes	Small volumes of anti-PROK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PROK2 purchase	MBS8546305 is an antibody targeting PROK2. Also known as PROK2 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PROK2. It may not necessarily be applicable to this product.

NCBI GI #	187167261
NCBI GeneID	60675

NCBI Accession #	NP_001119600.1
UniProt Primary Accession #	Q9HC23
UniProt Related Accession #	Q9HC23
GenBank Nucleotide #	NP_001119600.1
NCBI Official Full Name	prokineticin-2 isoform a
NCBI Official Synonym Full Names	prokineticin 2
NCBI Official Symbol	PROK2
NCBI Official Synonym Symbols	BV8; HH4; PK2; KAL4; MIT1
UniProt Protein Name	Prokineticin-2
UniProt Synonym Protein Names	Protein Bv8 homolog
Protein Family	Prokineticin
UniProt Gene Name	PROK2
UniProt Synonym Gene Names	BV8; PK2
UniProt Entry Name	PROK2_HUMAN
NCBI Protein Information	prokineticin-2
NCBI Summary for PROK2	This gene encodes a protein expressed in the suprachiasmatic nucleus (SCN) circadian clock that may function as the output component of the circadian clock. The secreted form of the encoded protein may also serve as a chemoattractant for neuronal precursor cells in the olfactory bulb. Proteins from other vertebrates which are similar to this gene product were isolated based on homology to snake venom and secretions from frog skin, and have been shown to have diverse functions. Mutations in this gene are associated with Kallmann syndrome 4. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for PROK2	PROK2: May function as an output molecule from the suprachiasmatic nucleus (SCN) that transmits behavioral circadian rhythm. May also function locally within the SCN to synchronize output. Potently contracts gastrointestinal (GI) smooth muscle. Defects in PROK2 are the cause of Kallmann syndrome type 4 (KAL4); also known as hypogonadotropic hypogonadism and anosmia. Anosmia or hyposmia is related to the absence or hypoplasia of the olfactory bulbs and tracts. Hypogonadism is due to deficiency in gonadotropin-releasing hormone and probably results from a failure of embryonic migration of gonadotropin- releasing hormone-synthesizing neurons. KAL4 patients have variable degrees of olfactory and reproductive dysfunction, but do not show any of the occasional clinical anomalies reported in Kallmann syndrome such as renal agenesis, cleft lip/palate, selective tooth agenesis, and bimanual synkinesis. Belongs to the AVIT (prokineticin) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3p13 Cellular Component: extracellular region Molecular Function: G-protein-coupled receptor binding Biological Process: circadian rhythm; activation of MAPK activity; sensory perception of pain; chemotaxis; cell proliferation; G-protein coupled receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; neuropeptide signaling pathway; spermatogenesis; positive regulation of smooth muscle contraction; angiogenesis; inflammatory response; negative regulation of apoptosis Disease: Hypogonadotropic Hypogonadism 4 With Or Without Anosmia
Research Articles on PROK2	**1.** infiltrating neutrophils and 4T1 cells abundantly expressed prokineticin-2 (Prok2) and its receptor, Prokr1, respectively. Finally, the administration of 5-FU after the resection of the primary tumor failed to augment lung metastasis in the mice receiving Prokr1-deleted 4T1 cells.

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