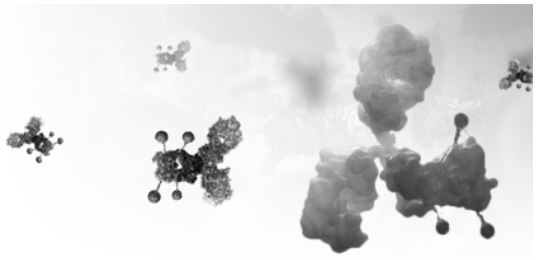

Human KCNQ4 blocking peptide (CDBP1678)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-KCNQ4 antibody
Antigen Description	The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. The encoded protein can form a homomultimeric potassium channel or possibly a heteromultimeric channel in association with the protein encoded by the KCNQ3 gene. Defects in this gene are a cause of nonsyndromic sensorineural deafness type 2 (DFNA2), an autosomal dominant form of progressive hearing loss. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	KCNQ4 potassium voltage-gated channel, KQT-like subfamily, member 4 [Homo sapiens]
Official Symbol	KCNQ4

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Synonyms	KCNQ4; potassium voltage-gated channel, KQT-like subfamily, member 4; DFNA2; potassium voltage-gated channel subfamily KQT member 4; Kv7.4; potassium channel KQT-like 4; potassium channel subunit alpha KvLQT4; KV7.4; DFNA2A;
Entrez Gene ID	9132
mRNA Refseq	NM_004700
Protein Refseq	NP_004691
UniProt ID	P56696
Chromosome Location	1p34
Pathway	Cholinergic synapse, organism-specific biosystem; Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	potassium channel activity; voltage-gated ion channel activity; voltage-gated potassium channel activity;

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