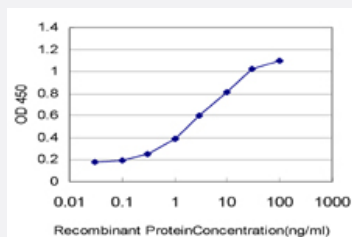


KCNJ10 monoclonal antibody (M01), clone 1C11

Catalog # H00003766-M01

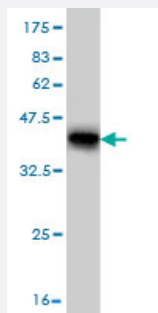
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged KCNJ10 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.18 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant KCNJ10.
Immunogen	KCNJ10 (NP_002232, 276 a.a. ~ 379 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	DFELVLILSGTVESTSATCQVRTSYLP EEILWGYEFTP AISLSASGKYADFS LFDQVVKVASPSGL RDSTVRYGDPEK LKLEESLREQAEKEGSALS VRISNV
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (100)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.18 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged KCNJ10 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — KCNJ10

Entrez GeneID	3766
GeneBank Accession#	NM_002241
Protein Accession#	NP_002232
Gene Name	KCNJ10
Gene Alias	BIRK-10, KCNJ13-PEN, KIR1.2, KIR4.1
Gene Description	potassium inwardly-rectifying channel, subfamily J, member 10
Omim ID	602208
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the inward rectifier-type potassium channel family, characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic generalized epilepsy syndromes. [provided by RefSeq]

Other Designations

ATP-sensitive inward rectifier potassium channel 10|OTTHUMP00000025748|glial ATP-dependent inwardly rectifying potassium channel KIR4.1|inward rectifier K+ channel KIR1.2|inwardly-rectifying potassium channel Kir1.2

Publication Reference

- [Free radical stress-mediated loss of Kcnj10 protein expression in stria vascularis contributes to deafness in Pendred syndrome mouse model.](#)

Singh R, Wangemann P.

American Journal of Physiology. Renal Physiology 2007 Oct; 294(1):F139.

Application: IP, WB, Mouse, Mouse stria vascularis

Disease

- [Diabetes Mellitus](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Migraine with Aura](#)
- [Sclerosis](#)
- [Seizures](#)