

KCNQ4 monoclonal antibody, clone S43-6

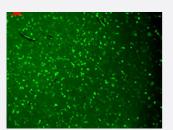
Catalog # MAB6656 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of rat tissue (a blend of rat skeletal muscle, heart, brain, kidney, liver, lung, pancreas, testes, spleen, and thymus) mixed lysate with KCNQ4 monoclonal antibody, clone S43-6 (Cat # MAB6656).



Immunofluorescence

Immunofluorescence staining in human hippocampus with KCNQ4 monoclonal antibody, clone S43-6 (Cat # MAB6656).

Specification	
Product Description	Mouse monoclonal antibody raised against partial recombinant KCNQ4.
Immunogen	Recombinant fusion protein corresponding to amino acids 2-77 of human KCNQ4.
Host	Mouse
Reactivity	Human, Mouse, Rat
Specificity	Detects ~77KDa.
Form	Liquid
lsotype	lgG1



Product Information

Recommend Usage	Western Blot (1-10 ug/mL) Immunohistochemistry (0.1-1.0 ug/mL) Immunocytochemistry (0.1-1.0 ug/mL) Immunofluorescence (1.0-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

• Western Blot (Tissue lysate)

Western blot analysis of rat tissue (a blend of rat skeletal muscle, heart, brain, kidney, liver, lung, pancreas, testes, spleen, and thymus) mixed lysate with KCNQ4 monoclonal antibody, clone S43-6 (Cat # MAB6656).

- Immunocytochemistry
- Immunofluorescence

Immunofluorescence staining in human hippocampus with KCNQ4 monoclonal antibody, clone S43-6 (Cat # MAB6656).

• Immunoprecipitation

Gene Info — KCNQ4

Entrez GenelD	<u>9132</u>
Protein Accession#	<u>P56696</u>
Gene Name	KCNQ4
Gene Alias	DFNA2, KV7.4
Gene Description	potassium voltage-gated channel, KQT-like subfamily, member 4
Omim ID	<u>600101</u> 603537
Gene Ontology	Hyperlink

😭 Abnova	Product Information
Gene Summary	The protein encoded by this gene forms a potassium channel that is thought to play a critical role i n the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current gen erated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retig abine, a novel anti-convulsant drug. The encoded protein can form a homomultimeric potassium c hannel or possibly a heteromultimeric channel in association with the protein encoded by the KCN Q3 gene. Defects in this gene are a cause of nonsyndromic sensorineural deafness type 2 (DFN A2), an autosomal dominant form of progressive hearing loss. Two transcript variants encoding di fferent isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP0000009219 potassium channel KQT-like 4 potassium voltage-gated channel KQT-li ke protein 4

Publication Reference

• Congenital long QT syndrome.

Crotti L, Celano G, Dagradi F, Schwartz PJ.

Orphanet Journal of Rare Diseases 2008 Jul; 3:18.

Ca(V)1.2 calcium channel dysfunction causes a multisystem disorder including arrhythmia and autism.

Splawski I, Timothy KW, Sharpe LM, Decher N, Kumar P, Bloise R, Napolitano C, Schwartz PJ, Joseph RM, Condouris K, Tager-Flusberg H, Priori SG, Sanguinetti MC, Keating MT. Cell 2004 Oct; 119(1):19.

Disease

- Deafness
- Genetic Predisposition to Disease
- Hearing Loss