10320 Camino Santa Fe, Suite G
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KCNQ2 Antibody
KCNQ2 Antibody, Clone S26A-23
Catalog # ASM10186

Specification

KCNQ2 Antibody - Product Information

Application	IHC, WB
Primary Accession	O43526
Other Accession	NP_004509.2
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat, Hamster
Clonality	Monoclonal

Description
Mouse Anti-Human KCNQ2 Monoclonal IgG1

Target/Specificity
Detects ~95kDa.

Other Names
BFNC Antibody, EBN1 Antibody, ENB1 Antibody, HNSPC Antibody, KCNA11 Antibody, KQT like 2 Antibody, KV7.2 Antibody, KVEBN1. KvLQT2 Antibody, voltage gated potassium channel subunit Kv7.2 Antibody

Immunogen
Fusion protein amino acids 1-59 of human KCNQ2

Purification
Protein G Purified

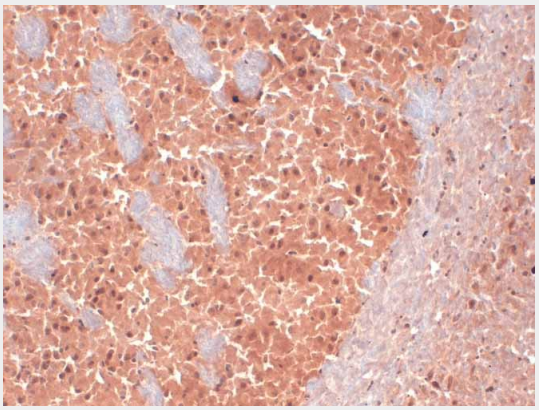
Storage	-20ºC

Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

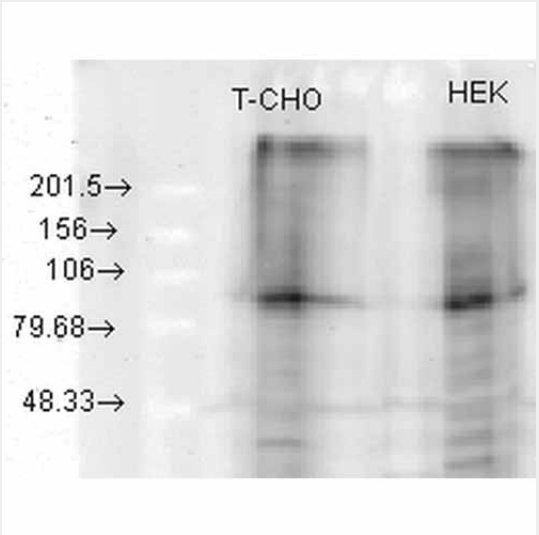
Shipping Temperature	Blue Ice or 4ºC

Certificate of Analysis
1 µg/ml of SMC-308 was sufficient for detection of KCNQ2 in 10 µg of COS-1 cell lysate transiently expressing KCNQ2 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Membrane



Immunohistochemistry analysis using Mouse Anti-KCNQ2 Monoclonal Antibody, Clone S26A-23 (ASM10186). Tissue: frozen brain section. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-KCNQ2 Monoclonal Antibody (ASM10186) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.



Western Blot analysis of Human, hamster

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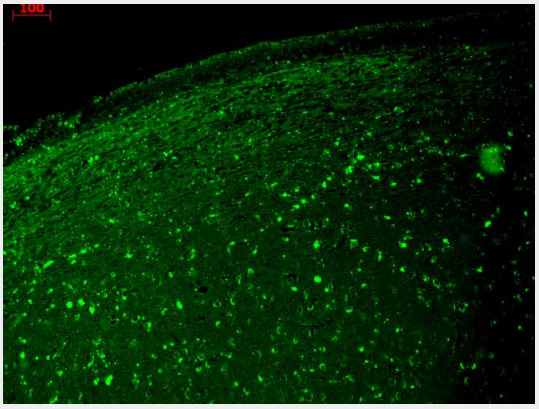
KCNQ2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HEK and CHO cell lysates showing detection of KCNQ2 protein using Mouse Anti-KCNQ2 Monoclonal Antibody, Clone S26A-23 (ASM10186). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-KCNQ2 Monoclonal Antibody (ASM10186) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT. KCNQ2 overexpressed.



Immunohistochemistry analysis using Mouse Anti-KCNQ2 Monoclonal Antibody, Clone S26A-23 (ASM10186). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-KCNQ2 Monoclonal Antibody (ASM10186) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

KCNQ2 Antibody - Background

Kv7.2 (KvLQT2) is a potassium channel protein coded for by the gene KCNQ2. It is associated with benign familial neonatal convulsions (1).

KCNQ2 Antibody - References

1. Wuttke T.V., et al. (2008) J Physiol. 586(2): 545-555.