

#### **KCNQ2** Antibody

KCNQ2 Antibody, Clone S26A-23 Catalog # ASM10186

### **Specification**

## **KCNQ2 Antibody - Product Information**

Application WB, IHC, IP, AM, ICC

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 -20°C

**Storage Buffer** 

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

Shipping Temperature Blue Ice or 4°C

**Certificate of Analysis** 

 $1~\mu g/ml$  of SMC-308 was sufficient for detection of KCNQ2 in  $10~\mu g$  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

### **KCNQ2 Antibody - Protocols**

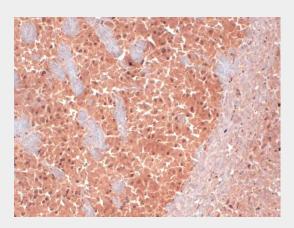
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

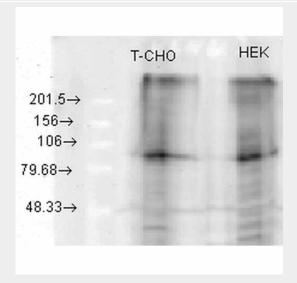


- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **KCNQ2 Antibody - Images**

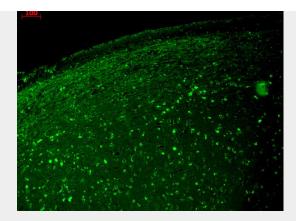


Immunohistochemistry analysis using Mouse Anti-KCNQ2 Monoclonal Antibody, Clone S26A-23 (ASM10186). Tissue: frozen brain section. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-KCNQ2 Monoclonal Antibody (ASM10186) at 1:1000 for 1 hour at RT. Secondary 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 HEK and CHO cell lysates showing detection of KCNQ2 protein using Mouse Anti-KCNQ2 Monoclonal Antibody, Clone S26A-23 (ASM10186). Load: 15  $\mu$ g. 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.