

ARG22238 anti-KCC2 / Potassium Chloride Cotransporter antibody [S1-12]

Package: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Mouse Monoclonal antibody [S1-12] recognizes KCC2 / Potassium Chloride Cotransporter |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | IHC-P, IP, WB |
| Specificity | Detects ~140kDa. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | S1-12 |
| Isotype | IgG2a |
| Target Name | KCC2 / Potassium Chloride Cotransporter |
| Species | Rat |
| Immunogen | Fusion protein around aa. 932-1043 of Rat KCC2 |
| Conjugation | Un-conjugated |
| Alternate Names | K-Cl cotransporter 2; Electroneutral potassium-chloride cotransporter 2; Solute carrier family 12 member 5; hKCC2; KCC2; Neuronal K-Cl cotransporter |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | IHC-P | 1:300 |
| | IP | Assay-dependent |
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

| | |
|---------------------|--|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS (pH 7.4), 0.09% Sodium azide and 50% Glycerol |
| Preservative | 0.09% Sodium azide |
| Stabilizer | 50% Glycerol |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw |

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

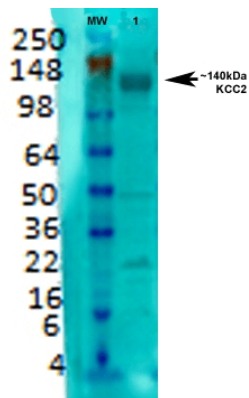
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

| | |
|-----------------------|--|
| Gene Symbol | Slc12a5 |
| Gene Full Name | solute carrier family 12 (potassium-chloride transporter), member 5 |
| Background | K-Cl cotransporters are proteins that lower intracellular chloride concentrations below the electrochemical equilibrium potential. The protein encoded by this gene is an integral membrane K-Cl cotransporter that can function in either a net efflux or influx pathway, depending on the chemical concentration gradients of potassium and chloride. The encoded protein can act as a homomultimer, or as a heteromultimer with other K-Cl cotransporters, to maintain chloride homeostasis in neurons. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Sep 2008] |
| Function | Mediates electroneutral potassium-chloride cotransport in mature neurons. Transport occurs under isotonic conditions, but is activated 20-fold by cell swelling. Important for Cl(-) homeostasis in neurons. [UniProt] |
| Calculated Mw | 126 kDa |
| Cellular Localization | Membrane |

Images



ARG22238 anti-KCC2 / Potassium Chloride Cotransporter antibody [S1-12] WB image

Western blot: Rat brain membrane lysate stained with ARG22238 anti-KCC2 / Potassium Chloride Cotransporter antibody [S1-12] at 1:1000 dilution.