Kv1.3 (Phospho Tyr187) Rabbit pAb

CatalogNo: YP0939 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 58kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:20000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Kv1.3/KCNA3 around the phosphorylation site of Tyr135. AA range:101-150

Specificity Phospho-Kv1.3 (Y187) Polyclonal Antibody detects endogenous levels of Kv1.3 protein only when phosphorylated at Y187.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RFyQL

Target Information

Gene name KCNA3

Protein Name Potassium voltage-gated channel subfamily A member 3

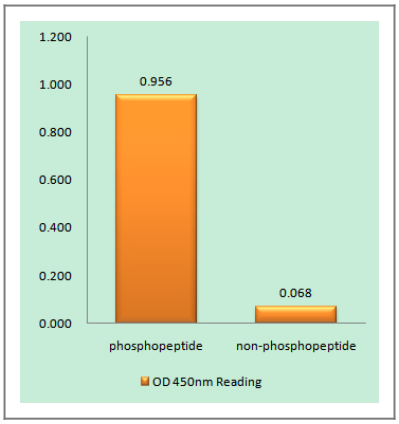
Organism	Gene ID	UniProt ID
Human	3738;	P22001;
Mouse	16491;	P16390;
Rat	29731;	P15384;

Cellular Localization Cell membrane ; Multi-pass membrane protein.

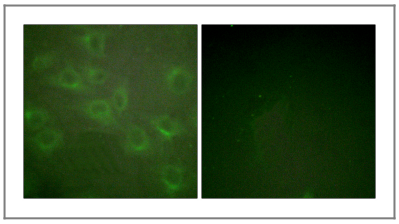
Tissue specificity Blood ,Brain ,Lymphocyte ,Skeletal muscle ,

Function Caution:It is uncertain whether Met-1 or Met-53 is the initiator. ,Domain:The N-terminus may be important in determining the rate of inactivation of the channel while the tail may play a role in modulation of channel activity and/or targeting of the channel to specific subcellular compartments. ,Domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. ,Function:Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane , the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. ,sequence Caution:Translation N-terminally extended. ,similarity:Belongs to the potassium channel family. A (Shaker) subfamily. ,subunit:Heterotetramer of potassium channel proteins. Binds PDZ domains of DLG1 , DLG2 and DLG4. ,

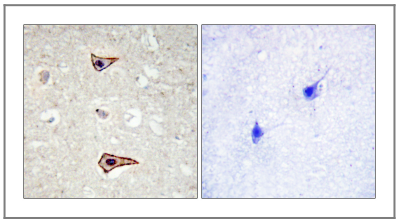
Validation Data



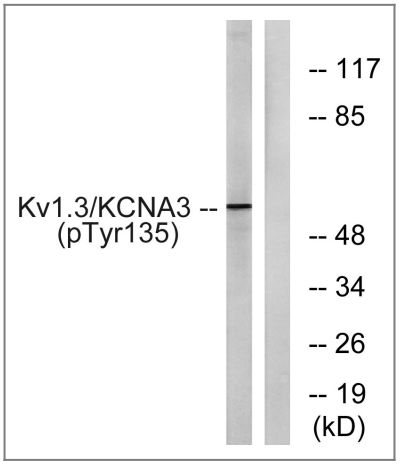
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Kv1.3/KCNA3 (Phospho-Tyr135) Antibody



Immunofluorescence analysis of HUVEC cells, using Kv1.3/KCNA3 (Phospho-Tyr135) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using Kv1.3/KCNA3 (Phospho-Tyr135) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with starved 24h, using Kv1.3/KCNA3 (Phospho-Tyr135) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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