abcam

Product datasheet

Anti-Ionotropic Glutamate receptor 4 antibody ab61171

1 Abreviews 1 References 1 Image

Overview

Product name	Anti-Ionotropic Glutamate receptor 4 antibody
Description	Rabbit polyclonal to Ionotropic Glutamate receptor 4
Host species	Rabbit
Specificity	Detects total ionotropic Glutamate Receptor 4 levels.
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic non-phosphopeptide derived from human ionotropic Glutamate Receptor 4 around the phosphorylation site of serine 862 (R-L-S^{P}-I-T).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{2+} and Ca^{2+}), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab61171** in the following tested applications.

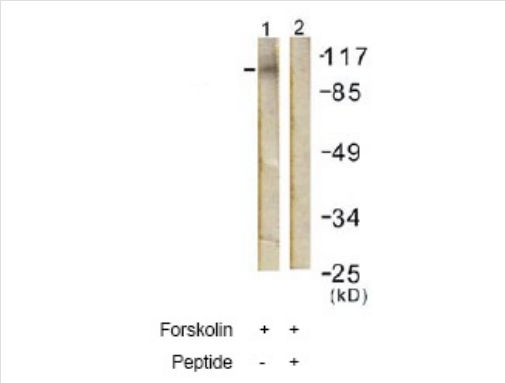
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/20000.
WB		1/500 - 1/1000. Detects a band of approximately 102 kDa (predicted molecular weight: 102 kDa).

Target

Function	Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist.
Sequence similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA4 subfamily.
Post-translational modifications	Palmitoylated. Depalmitoylated upon glutamate stimulation. Cys-611 palmitoylation leads to Golgi retention and decreased cell surface expression. In contrast, Cys-837 palmitoylation does not affect cell surface expression but regulates stimulation-dependent endocytosis.
Cellular localization	Cell membrane. Cell junction > synapse > postsynaptic cell membrane.

Images



Western blot - Anti-Ionotropic Glutamate receptor 4 antibody (ab61171)

All lanes : Anti-Ionotropic Glutamate receptor 4 antibody (ab61171) at 1/500 dilution

Lane 1 : NIH 3T3 cell extracts treated with Forskolin (40nM, 30mins)
Lane 2 : NIH 3T3 cell extracts treated with Forskolin (40nM, 30mins) with immunising peptide

Predicted band size: 102 kDa
Observed band size: 102 kDa

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