

Product datasheet

Anti-Sigma1-receptor antibody ab71292

1 Image

Overview

Product name	Anti-Sigma1-receptor antibody
Description	Rabbit polyclonal to Sigma1-receptor
Host species	Rabbit
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human Sigma1-receptor aa 118-147 (internal sequence) conjugated to keyhole limpet haemocyanin. Database link: Q99720
Positive control	Sigma1-receptor-transfected 293 cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Ammonium Sulphate Precipitation
Purification notes	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab71292** 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		1/1000.
WB		1/50 - 1/100. Detects a band of approximately 28 kDa (predicted molecular weight: 25 kDa).

Target

Function

Functions in lipid transport from the endoplasmic reticulum and is involved in a wide array of cellular functions probably through regulation of the biogenesis of lipid microdomains at the plasma membrane. Involved in the regulation of different receptors it plays a role in BDNF signaling and EGF signaling. Also regulates ion channels like the potassium channel and could modulate neurotransmitter release. Plays a role in calcium signaling through modulation together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. Plays a role in several other cell functions including proliferation, survival and death. Originally identified for its ability to bind various psychoactive drugs it is involved in learning processes, memory and mood alteration.

Tissue specificity

Widely expressed with higher expression in liver, colon, prostate, placenta, small intestine, heart and pancreas. Expressed in the retina by retinal pigment epithelial cells.

Involvement in disease

Amyotrophic lateral sclerosis 16, juvenile

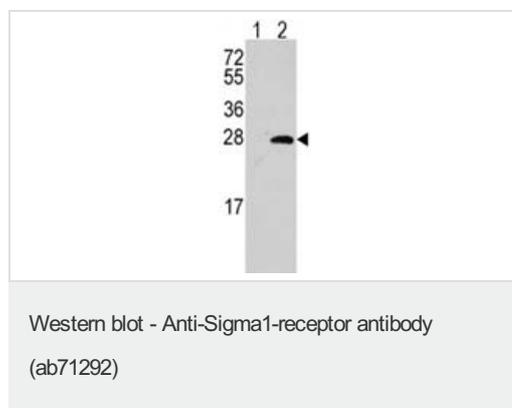
Sequence similarities

Belongs to the ERG2 family.

Cellular localization

Nucleus inner membrane. Nucleus outer membrane. Endoplasmic reticulum membrane. Lipid droplet. Cell junction. Cell membrane. Cell projection > growth cone. Targeted to lipid droplets, cholesterol and galactosylceramide-enriched domains of the endoplasmic reticulum. Enriched at cell-cell communication regions, growth cone and postsynaptic structures. Localization is modulated by ligand-binding.

Images



All lanes : Anti-Sigma1-receptor antibody (ab71292) at 1/50 dilution

Lane 1 : Non-transfected 293 cell lysates

Lane 2 : 293 cell lysates transiently transfected with the OPR1 gene

Lysates/proteins at 12.5 µg per lane.

Predicted band size: 25 kDa

Observed band size: 28 kDa

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