

Datasheet for 600-401-D78**mGluR7 phospho S862 Antibody****Overview**

Description:	Anti-mGluR7 pS862 (RABBIT) Antibody - 600-401-D78
Item No.:	600-401-D78
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	mGluR7 pS862 antibody detects mGluR7 when phosphorylated at Ser862. Metabotropic glutamate receptors (mGluRs) are key receptors in the modulation of excitatory synaptic transmission in the central nervous system. They are implicated in many forms of neural plasticity as well as learning and memory and drug abuse. The mGluRs are divided into three groups based on sequence identity and pharmacological properties: group I (mGluR1 and mGluR5) are localized in the perisynaptic region of the postsynaptic membrane, whereas group II (mGluR2 and mGluR3) and group III (mGluR4,6,7 and 8) are localized predominantly at presynaptic terminals. PKC phosphorylation of serine 862 on mGluR7 has been shown to be critical for stabilizing receptor surface expression and promoting binding to the synaptic PDZ-domain-containing protein PICK1. Therefore, mGluR7 pS862 antibody is ideal for investigators involved in neuronal circuitry and more generally in Neuroscience.
Synonyms:	mGluR7, Metabotropic Glutamate Receptor 7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Grm7
Reactivity:	Mouse, Rat
PTM Specificity:	Phosphorylation

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-mGluR7 pS862 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser 862 conjugated to KLH.
Purity/Specificity:	Anti mGluR7 pS862 antibody is directed against mGluR7 phosphorylated at Ser862. GluR7 antibody is affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling is blocked by preadsorption of antibody with the phospho-peptide used as antigen but not by the corresponding dephosphopeptide. The antibody is a total IgG fraction. Expect reactivity with the following species based on sequence homology: bovine, canine, human, non-human primate and zebrafish. Cross reactivity with mGluR7 from other species has not been determined.
Relevant Links:	• UniProtKB - P35400 • GenelD - 81672 • UniProtKB - P35400.1

Application Details

Tested Applications:	WB
Application Note:	Anti-mGluR7 pS862 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 102 kDa in size corresponding to the mGluR7 protein phosphorylated at Ser862 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

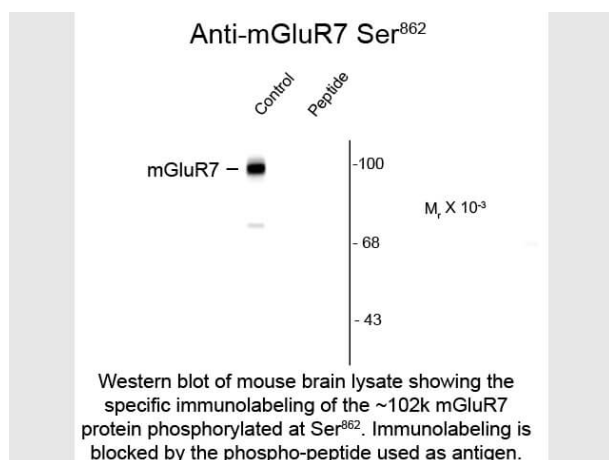
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit Anti-Metabotropic glutamate receptors (mGluR) 7 pS862 antibody. Lane 1: mouse brain lysate. Lane 2: mouse brain lysate blocked by the phospho-peptide. Load: 10 µg per lane. Primary antibody: mGluR7 pS862 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~102kDa for mGluR7 protein phosphorylated at Ser862. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.