

Anti-GluR1-Subunit (Ser831) Antibody



Pooled Serum

Product Details

Available Variants	150 µL (SKU:p1160-831) 25 µL (SKU:p1160-831t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	GRIA1
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000 WB Brain: 1:1000
Species Reactivity	Mouse, Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser831 of rat GluR1 conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~100 kDa GluR1 protein phosphorylated at Ser831. Immunolabeling is completely eliminated by treatment with λ-phosphatase.
Molecular Weight	100 kDa
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at

-20°C.

Antibody Registry ID AB_2492127

UniProt ID [P19490](#)

Shipping Blue Ice

Expiration After date of receipt, stable for at least 1 year at -20°C.

Usage Statement For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.

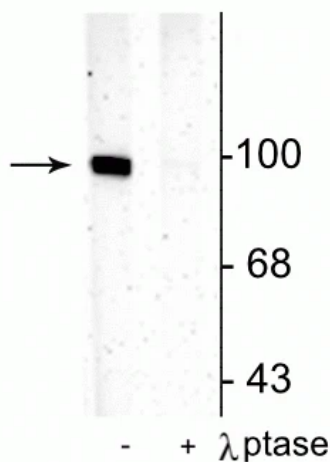
Expected Reactivity Canine, Chicken

Post Translational Modification Type Phosphorylated

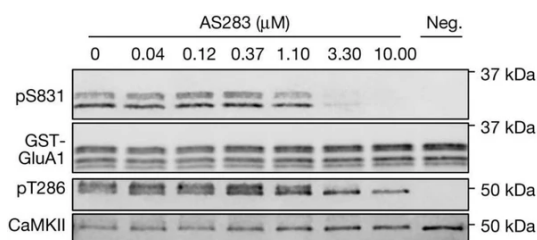
Post Translational Modification Residue Ser831

NCBI Gene ID 50592

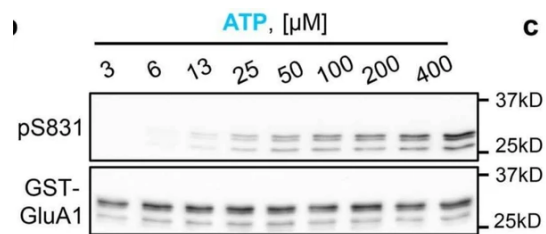
Product Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~100 kDa GluR1 protein phosphorylated at Ser831 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 min).



Representative immunoblot and quantification of in vitro kinase reactions at 30 °C in 1 mM ATP measuring AS283-mediated inhibition of CaMKII phosphorylation of GluA1 S831 (pS831) (Cat. p1160-831, 1:2000) and autophosphorylation of CaMKII T286 (pT286) (Cat. p1005-286, 1:2500) with varying concentrations of AS283 (0.41–10 μM). For a negative control (Neg.), ATP was omitted. Image from publication CC-BY-4.0. [PMID: 37648853](#)



Representative Immunoblots and quantification of in vitro kinase reactions at 30 °C with increasing ATP concentration measuring purified CaMKIIα phosphorylation of GST-GluA1 S831 (Cat. p1160-831, 1:2000). Image from publication CC-BY-4.0. [PMID: 37648853](https://pubmed.ncbi.nlm.nih.gov/37648853/)

Product Page URL: www.antibodiesinc.com/products/anti-glur1-subunit-ser831-antibody-p1160-831



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