

Anti-Phospho-Fragile X Mental Retardation Protein (FMRP) (Ser499) FMR1 Antibody

Catalog Number: P00192

About FMR1

Fragile X Mental Retardation Protein (FMRP) is an RNA-binding protein that plays an essential role in cognitive brain function. Mutations in the FMR1 gene, which codes for FMRP, can result in fragile X syndrome, autism, as well as other cognitive deficits (Brown et al., 1998, Goodlin-Jones et al., 2004). Phosphorylation of the highly conserved Ser-499 has been shown to trigger hierarchical phosphorylation of nearby serines and may play a role in suppressing target mRNA translation (Ceman et al., 2003, Narayanan et al. 2008).

Overview

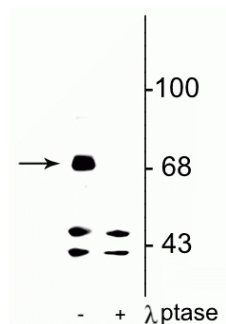
Product Name	Anti-Phospho-Fragile X Mental Retardation Protein (FMRP) (Ser499) FMR1 Antibody
Reactive Species	Chicken, Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-Fragile X Mental Retardation Protein (FMRP) (Ser499) FMR1 Antibody (Catalog # P00192). Tested in WB, IHC applications. This antibody reacts with Chicken, Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	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. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q80WE1

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser499 of rat FMRP, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Primate, Sheep, Xenopus, Zebrafish
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1000 IHC: 1:250-1:1000

Anti-Phospho-Fragile X Mental Retardation Protein (FMRP) (Ser499) FMR1 Antibody (P00192) Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~71kDa FMRP protein phosphorylated at Ser⁴⁹⁹ in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (400 units/100uL lysate for 30 min).

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