

Anti-FMR1 Antibody

Catalog Number: A00192

About FMR1

Fragile X syndrome is a frequent form of inherited mental retardation caused by functional loss of the fragile X mental retardation protein, FMR1, also known as FMRP (1). FMR1 binds RNA and is associated with polysomes. The encoded protein may be involved in mRNA trafficking from the nucleus to the cytoplasm (2). A trinucleotide repeat (CGG) in the 5' UTR is normally found at 6-53 copies, but an expansion to 55-230 repeats is the cause of fragile X syndrome (1). Expansion of the trinucleotide repeat may also cause one form of premature ovarian failure (POF1) (3).

Overview

Product Name	Anti-FMR1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FMR1 Antibody (Catalog # A00192). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	FMR1 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	FMR1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q06787

Technical Details

Immunogen	FMR1 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human FMR1. The immunogen is located within the last 50 amino acids of FMR1.
Predicted Reactive Species	Mouse
Cross Reactivity	FMR1 antibody is human, mouse and rat reactive. Multiple isoforms of FMR1 are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	FMR1 antibody is affinity chromatography purified via peptide column.
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.

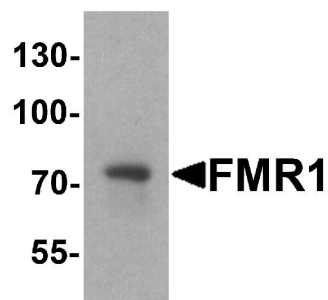
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

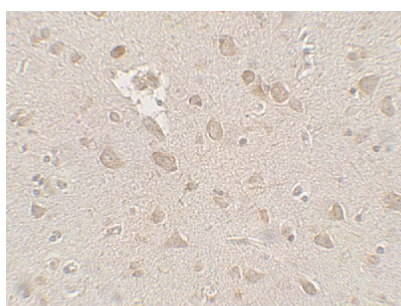
FMR1 antibody can be used for detection of FMR1 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

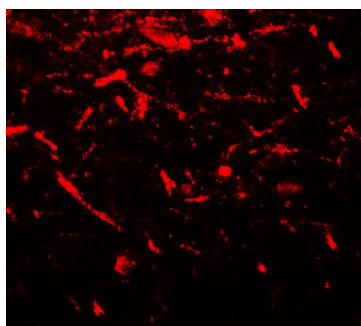
Anti-FMR1 Antibody (A00192) Images



Western blot analysis of FMR1 in rat brain tissue lysate with FMR1 antibody at 1 ug/ml.



Immunohistochemistry of FMR1 in human brain tissue with FMR1 antibody at 2.5 ug/mL.



Immunofluorescence of FMR1 in human brain tissue with FMR1 antibody at 20 ug/mL.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-FMR1 Antibody