




Product datasheet

Anti-FMRP antibody [1D10] ab230915

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Overview

Product name	Anti-FMRP antibody [1D10]
Description	Mouse monoclonal [1D10] to FMRP
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Orangutan 
Immunogen	Recombinant fragment corresponding to Human FMRP aa 1-300. Produced in E. coli. (NP_002015). Database link: Q06787 <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: Untransfected and pCMV6-ENTRY FMRP-transfected HEK-293T whole cell lysate. IHC-P: Human lung tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA, 50% Glycerol (glycerin, glycerine)
Purity	Protein A/G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal

Clone number	1D10
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab230915 in the following tested applications.

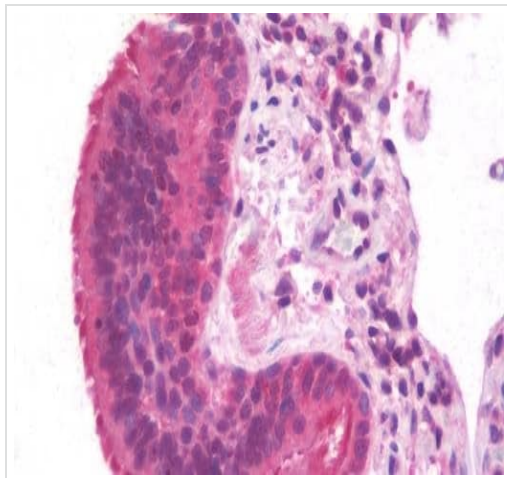
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		1/500 - 1/2000. Predicted molecular weight: 71 kDa.

Target

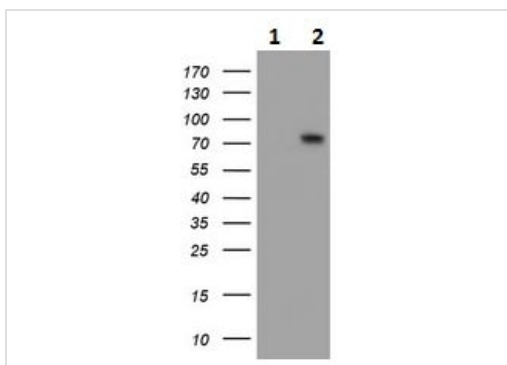
Function	Translation repressor. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates translation repression (By similarity). RNA-binding protein that plays a role in intracellular RNA transport and in the regulation of translation of target mRNAs. Associated with polysomes. May play a role in the transport of mRNA from the nucleus to the cytoplasm. Binds strongly to poly(G), binds moderately to poly(U) but shows very little binding to poly(A) or poly(C).
Tissue specificity	Highest levels found in neurons, brain, testis, placenta and lymphocytes. Also expressed in epithelial tissues and at very low levels in glial cells.
Involvement in disease	<p>Defects in FMR1 are the cause of fragile X syndrome (FRAX) [MIM:300624]. Fragile X syndrome is a common genetic disease (has a prevalence of one in every 2000 children) which is characterized by moderate to severe mental retardation, macroorchidism (enlargement of the testicles), large ears, prominent jaw, and high-pitched, jocular speech. The defect in most fragile X syndrome patients results from an amplification of a CGG repeat region which is directly in front of the coding region.</p> <p>Defects in FMR1 are the cause of fragile X tremor/ataxia syndrome (FXTAS) [MIM:300623]. In FXTAS, the expanded repeats range in size from 55 to 200 repeats and are referred to as 'premutations'. Full repeat expansions with greater than 200 repeats results in fragile X mental retardation syndrome [MIM:300624]. Carriers of the premutation typically do not show the full fragile X syndrome phenotype, but comprise a subgroup that may have some physical features of fragile X syndrome or mild cognitive and emotional problems.</p> <p>Defects in FMR1 are the cause of premature ovarian failure syndrome type 1 (POF1) [MIM:311360]. An ovarian disorder defined as the cessation of ovarian function under the age of 40 years. It is characterized by oligomenorrhea or amenorrhea, in the presence of elevated levels of serum gonadotropins and low estradiol.</p>
Sequence similarities	<p>Belongs to the FMR1 family.</p> <p>Contains 2 KH domains.</p>
Post-translational modifications	Phosphorylated on several serine residues.
Cellular localization	Cytoplasm. Nucleus > nucleolus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FMRP antibody [1D10] (ab230915)

Formalin-fixed, paraffin-embedded human lung tissue stained for FMRP using ab230915 at 10 µg/ml in immunohistochemical analysis.



Western blot - Anti-FMRP antibody [1D10] (ab230915)

All lanes : Anti-FMRP antibody [1D10] (ab230915) at 1/500 dilution

Lane 1 : pCMV6-ENTRY control-transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : pCMV6-ENTRY FMRP-transfected HEK-293T whole cell lysate

Lysates/proteins at 5 µg per lane.

Predicted band size: 71 kDa

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