Datasheet for ABIN6140718

# anti-FMR1 antibody (AA 1-290)

4 Images

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | FMR1 |
| Binding Specificity: | AA 1-290 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This FMR1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

## Product Details

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|---|---|
| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 1-290 of human FMRP (NP_001172011.1). |
| Sequence: | MEELVVEVRG SNGAFYKAFV KDVHEDSITV AFENNWQPDR QIPFHDVRFP PPVGYNKDIN ESDEVEVYSR ANEKEPCCWW LAKVRMIKGE FYVIEYAACD ATYNEIVTIE RLRSVNPNKP ATKDTFHKIK LDVPEDLRQM CAKEAAHKDF KKAVGAFSVT YDPENYQLVI LSINEVTSKR AHMLIDMHFR SLRTKLSLIM RNEEASKQLE SSRQLASRFH EQFIVREDLM GLAIGTHGAN IQQARKVPGV TAIDLDEDTC TFHIYGEDQD AVKKARSFLE FAEDVIQVPR |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Rat |
| Characteristics: | Polyclonal Antibodies |
| Purification: | Affinity purification |

## Target Details

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|---|---|
| Target: | FMR1 |
| Alternative Name: | FMR1 (FMR1 Products) |
| Background: | The protein encoded by this gene binds RNA and is associated with polysomes. The encoded protein may be involved in mRNA trafficking from the nucleus to the cytoplasm. 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. Expansion of the trinucleotide repeat may also cause one form of premature ovarian failure (POF1). Multiple alternatively spliced transcript variants that encode different protein isoforms and which are located in different cellular locations have been described for this gene.,FMRP,FRAXA,POF,POF1,FMR1,POFX,Epigenetics & Nuclear Signaling,RNA Binding,Neuroscience,Cell Type Marker,Neurodegenerative Diseases,Neuron marker,Dendrite marker,Synapse marker,FMR1 |
| Molecular Weight: | 58 kDa/61 kDa/66 kDa/68 kDa/69 kDa/70 kDa/71 kDa |
| Gene ID: | 2332 |
| UniProt: | Q06787 |
| Pathways: | Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development |

## Application Details

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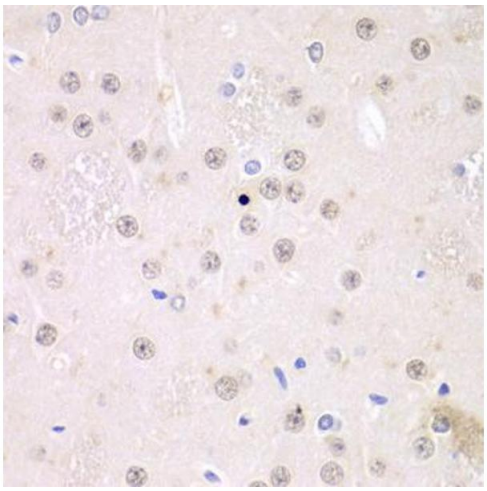
|---|---|
| Application Notes: | WB,1:500 - 1:2000,IHC,1:50 - 1:200 |
| Restrictions: | For Research Use only |

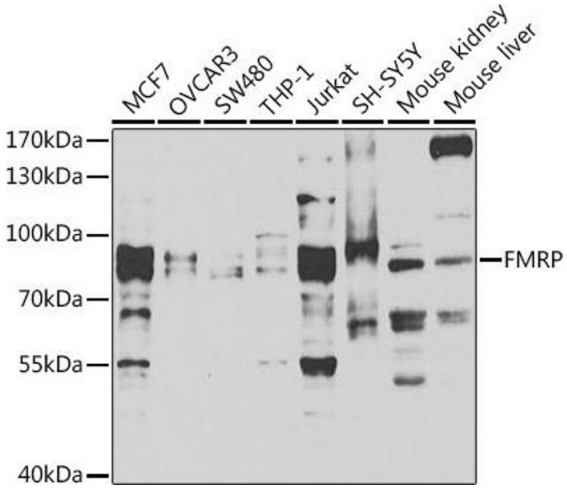
## Handling

| | |
|---|---|
| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |



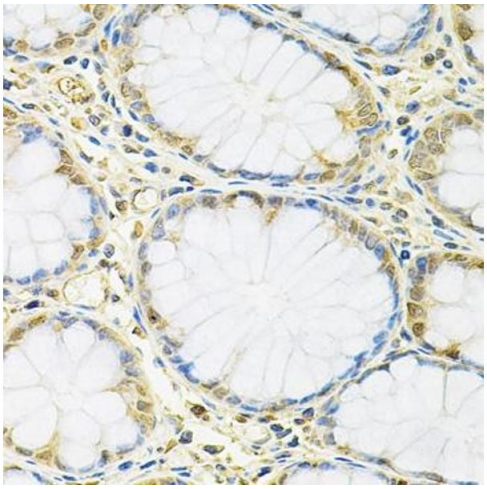
## Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded rat brain using FMRP Antibody (ABIN6127908, ABIN6140718, ABIN6140720 and ABIN6221284) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.




## Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using FMRP antibody (ABIN6127908, ABIN6140718, ABIN6140720 and ABIN6221284) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 50s.



## Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human colon using FMRP Antibody (ABIN6127908, ABIN6140718, ABIN6140720 and ABIN6221284) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Please check the product details page for more images. Overall 4 images are available for ABIN6140718.