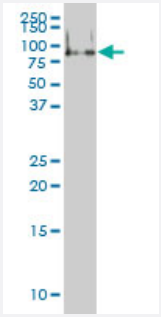
FMR1 monoclonal antibody (M01), clone 2D4

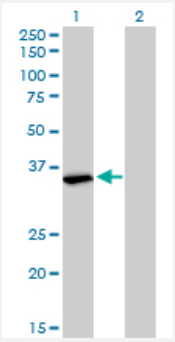
Catalog # H00002332-M01 Size 100 ug

Applications



Western Blot (Cell lysate)

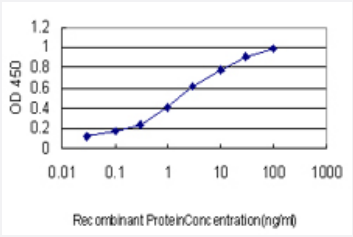
FMR1 monoclonal antibody (M01), clone 2D4 Western Blot analysis of FMR1 expression in HepG2 (Cat # L019V1).



Western Blot (Transfected lysate)

Western Blot analysis of FMR1 expression in transfected 293T cell line by FMR1 monoclonal antibody (M01), clone 2D4.

Lane 1: FMR1 transfected lysate(34.1 KDa).
Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FMR1 is approximately 0.1ng/ml as a capture antibody.

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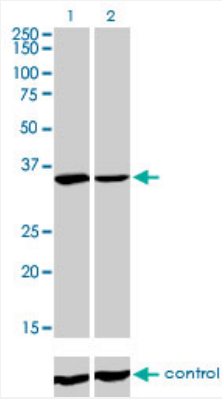
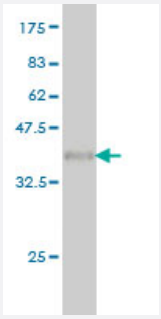


RNAi Knockdown (Antibody validated)

Western blot analysis of FMR1 over-expressed 293 cell line, cotransfected with FMR1 Validated Chimera RNAi (Cat # H00002332-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with FMR1 monoclonal antibody (M01), clone 2D4 (Cat # H00002332-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant FMR1.
Immunogen	FMR1 (NP_002015, 121 a.a. ~ 220 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	ATKDTFHKIKLDVPEDLRQMCAKEAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLID MHFRSLRTKLSLIMRNEEASKQLESSRQLASRFH
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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Applications

- Western Blot (Cell lysate)

  FMR1 monoclonal antibody (M01), clone 2D4 Western Blot analysis of FMR1 expression in HepG2 (Cat # L019V1).

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of FMR1 expression in transfected 293T cell line by FMR1 monoclonal antibody (M01), clone 2D4.

  Lane 1: FMR1 transfected lysate(34.1 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged FMR1 is approximately 0.1ng/ml as a capture antibody.

  Protocol Download

- ELISA

- RNAi Knockdown (Antibody validated)

  Western blot analysis of FMR1 over-expressed 293 cell line, cotransfected with FMR1 Validated Chimera RNAi (Cat # H00002332-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with FMR1 monoclonal antibody (M01), clone 2D4 (Cat # H00002332-M01). GAPDH (36.1 kDa) used as specificity and loading control.

  Protocol Download

Gene Info — FMR1

Entrez GeneID	2332
GeneBank Accession#	NM_002024
Protein Accession#	NP_002015
Gene Name	FMR1

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Gene Alias	FMRP, FRAXA, MGC87458, POF, POF1
Gene Description	fragile X mental retardation 1
Omim ID	300623 300624 309550
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene binds RNA and is associated with polysomes. The encoded pr otein may be involved in mRNA trafficking from the nucleus to the cytoplasm. A trinucleotide repea t (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 pr emature ovarian failure (POF1). [provided by RefSeq
Other Designations	OTTHUMP00000024197|premature ovarian failure 1

Publication Reference

- Splicing of exon 9a in FMR1 transcripts results in a truncated FMRP with altered subcellular distribution.

  Fu XG, Yan AZ, Xu YJ, Liao J, Guo XY, Zhang D, Yang WJ, Zheng DZ, Lan FH.

  Gene 2020 Mar; 731:144359.

  Application: IF, WB-Tr, Human, HeLa, HEK 293T cells

Disease

- Ataxia
- Ataxia telangiectasia
- Attention
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Cerebellar Ataxia
- Cognition
- Cognition Disorders
- Dementia
- Disease Progression

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- Essential tremor
- Fetal Diseases
- Fragile X syndrome
- Genetic Predisposition to Disease
- Genomic Instability
- Hallucinations
- Huntington disease
- Infertility
- Inhibition (Psychology)
- Intelligence Tests
- Memory
- Menopause
- Mental Disorders
- Mental Processes
- Mental Retardation
- Mental Status Schedule
- Multiple System Atrophy
- Neuropsychological Tests
- Obesity
- Olivopontocerebellar Atrophies
- Osteoporosis
- Ovarian Diseases
- Ovarian Failure
- Parkinson disease
- Parkinsonian Disorders
- Polycystic Ovary Syndrome

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- Primary Ovarian Insufficiency
- Psychotic Disorders
- Puberty
- Reaction Time
- Schizophrenia
- Spinocerebellar ataxia
- Spinocerebellar Ataxias
- Spinocerebellar Degenerations
- Thrombophilia
- Tobacco Use Disorder
- Tremor

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