

# FXR2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51218

## Product Information

Application	WB
Primary Accession	<a href="#">P51116</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74223

## Additional Information

Gene ID	9513
Other Names	Fragile X mental retardation syndrome-related protein 2, FXR2, FMR1L2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human FXR2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	FXR2 {ECO:0000303 PubMed:7489725, ECO:0000312 HGNC:HGNC:4024}
Function	mRNA-binding protein that acts as a regulator of mRNAs translation and/or stability, and which is required for adult hippocampal neurogenesis (By similarity). Specifically binds to AU-rich elements (AREs) in the 3'-UTR of target mRNAs (By similarity). Promotes formation of some phase-separated membraneless compartment by undergoing liquid-liquid phase separation upon binding to AREs- containing mRNAs: mRNAs storage into membraneless compartments regulates their translation and/or stability (By similarity). Acts as a regulator of adult hippocampal neurogenesis by regulating translation and/or stability of NOG mRNA, thereby preventing NOG protein expression in the dentate gyrus (By similarity).
Cellular Location	Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250 UniProtKB:Q61584}. Cytoplasm Postsynapse {ECO:0000250 UniProtKB:Q9WVR4}. Note=Specifically localizes to cytoplasmic ribonucleoprotein membraneless compartments (By similarity). Localization to the post-synaptic region is dependent on FMR1 (By similarity).

{ECO:0000250|UniProtKB:Q61584, ECO:0000250|UniProtKB:Q9WVR4}

## Tissue Location

Expressed in all tissues examined including heart, brain, kidney and testis (PubMed:9259278). In brain, present at high level in neurons and especially in the Purkinje cells at the interface between the granular layer and the molecular layer (at protein level) (PubMed:9259278).

## Background

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RNA-binding protein.

## References

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Zhang Y.,et al.EMBO J. 14:5358-5366(1995).

Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.

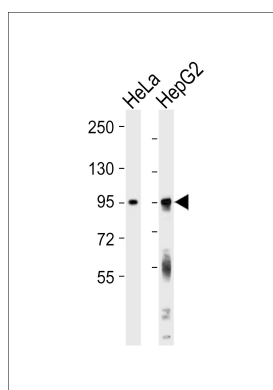
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Joseph D.R.,et al.Steroids 63:2-4(1998).

## Images

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All lanes : Anti-FXR2 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 75 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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