

PRODUCT INFORMATION

Product name : RXRA antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to RXRA

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : RXRA

Gene Name : retinoid X receptor, alpha

Ensembl ID : ENSG00000186350

Entrez GeneID : 6256

GenBank Accession number : X52773

Omim ID : 180245

Swiss-Prot : P19793

Molecular weight of RXRA : 50.8 kDa

Function : Nuclear hormone receptor. Involved in the retinoic acid response pathway. Binds 9-cis retinoic acid (9C-RA). ARF6 acts as a key regulator of the tissue-specific adipocyte P2 (aP2) enhancer

Expected subcellular localization : Nucleus

Expected tissue specificity : Highly expressed in liver, also found in lung, kidney and heart

Summary : Retinoid X receptors (RXRs) and retinoic acid receptors (RARs), are nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid-mediated gene activation. These receptors exert their action by binding, as homodimers or heterodimers, to specific sequences in the promoters of target genes and regulating their transcription. The protein encoded by this gene is a member of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. [provided by RefSeq]

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/80000 has been determined. Appropriate specificity controls were run.
- **WB:** 1/5000.
- **IF:** 1/1000.

Optimal dilutions/concentration should be determined by the end user.

Raised in : Rabbit

Clonality : Polyclonal

Isotype : IgG

Purity : Purified Antibody

Storage buffer : 0.5 X PBS, containing a final concentration of 50% glycerol, 0.1% BSA and 0.01% Thimerosal.

Form : Liquid

Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

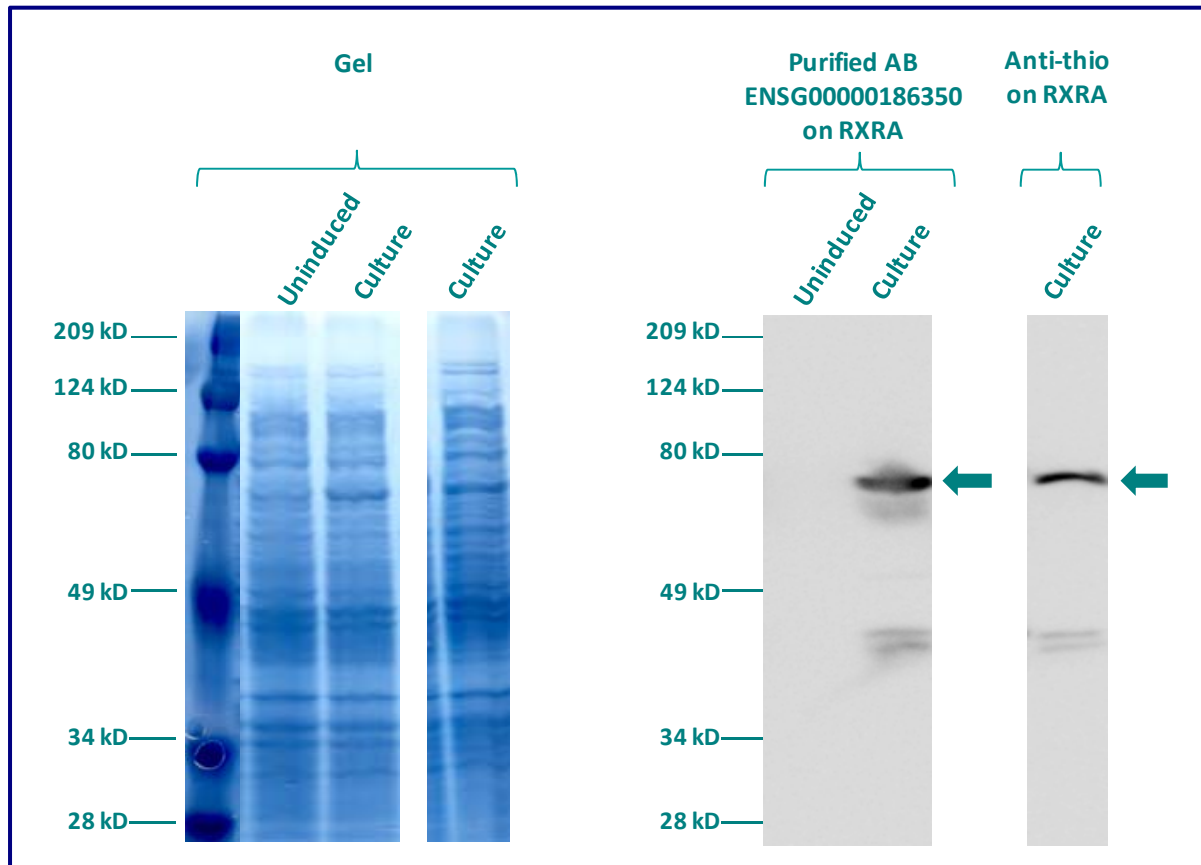
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000186350 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio (positive control) has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name : pBAD-DEST49.

Molecular weight of RXRA : 64.8kDa (50.8kDa + another 14kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000186350 at 1:5000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Rabbit IgG HRP conjugated at 1/10000
- 60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Retinoic acid receptor RXR-alpha (RXRA) expression in 4 cells lines (HELA, 293T/17, Capan-2, Skin 3,44). The purified Antibody ENSG00000186350 has been tested at 1/5000.

Red staining : cytoskeleton (microtubules/ α -tubuline)

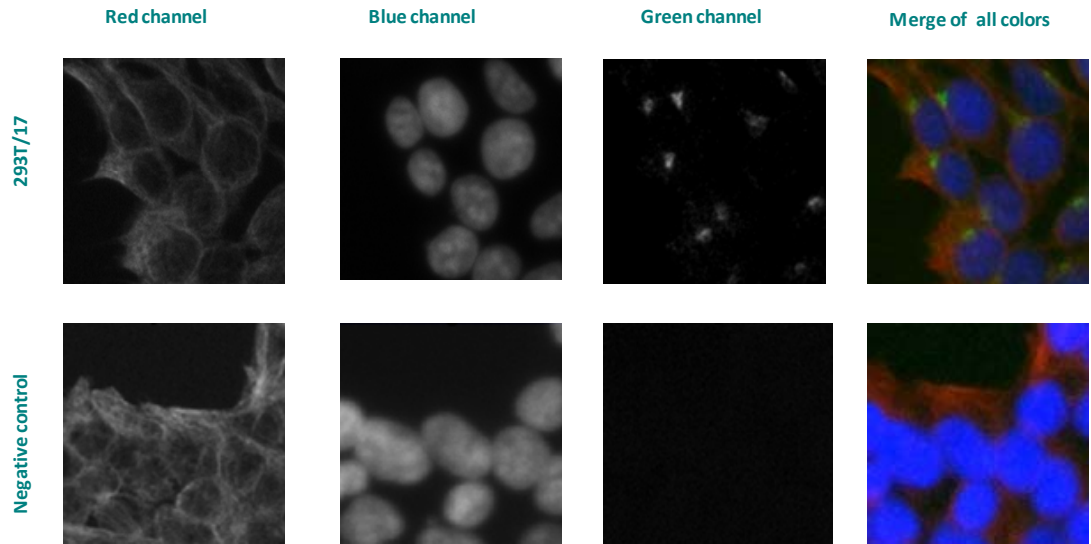
Blue staining : nucleus (Hoechst)

Green staining : anti- RXRA antibody (purified)

Expected subcellular location : Nucleus

Expected tissue specificity : Highly expressed in liver, also found in lung, kidney and heart.





The different images obtained by double labeling immunofluorescence microscopy of 293T/17 (kidney embryonic) cell line shows that RXRA is a nuclear/perinuclear protein detected in this cellular tissue .

Pictures are compared with a negative control from the same cell line without primary Ab.

Remaining cell lines tested gave a positive result with the same distribution (nuclear/ perinuclear).

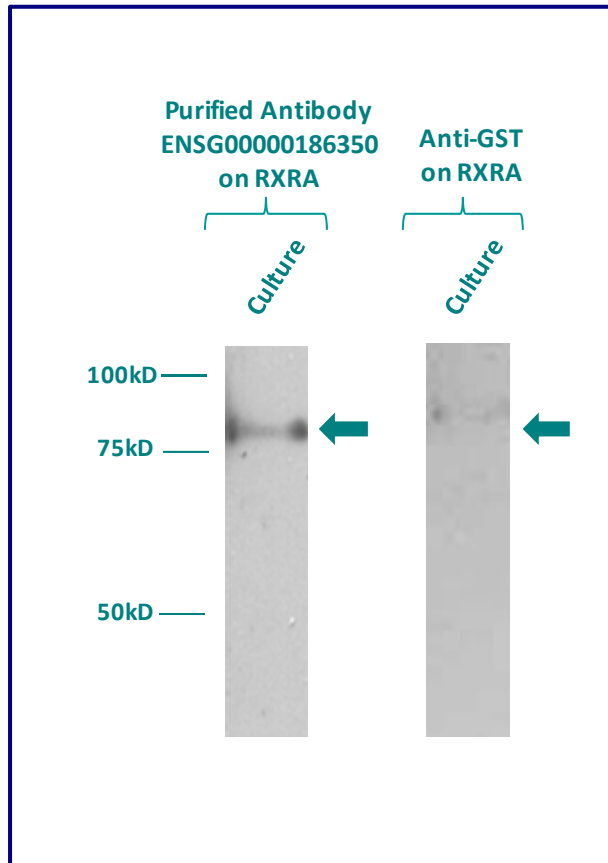
WESTERN BLOT ANALYSIS OF MURINE RECOMBINANT PROTEIN RXRA

The purified antibody ENSG00000186350 has been tested at 1/5000 on a murine recombinant protein with a GST tag.

An anti-GST has been tested as a positive control.

Plasmid name : pF3A-WG-GST.

Molecular weight of RXRA : 76.8kDa (50.8kDa + another 26kDa for the tag).



Gel concentration: 10%

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000186350 at 1:5000
- Dilute the anti-GST at 1:2000

60 minutes of incubation

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Rabbit IgG HRP conjugated at 1/5000
- 60 minutes of incubation