



FabGennix Inc.
INTERNATIONAL

New Item New Item

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Receptor Interacting Protein 140 (RIP140)-selective antibodies

Receptor Interacting Protein 140 antibodies (Cat # RIP-101AP; RIP-112AP and RIP-121AP)

The nuclear receptor transcriptional activity is regulated by coregulators such as receptor interacting protein 140 (RIP140) by providing an bridging apparatus between nuclear receptor and the transcription machinery. It has recently been shown that Orphan receptor SF-1, which regulates the cAMP stimulated expression of human steroidenic acute regulatory protein gene DAX-1, interacts with RIP140 (1). RIP140 also regulated the target gene expression in response to corticosteroid hormone receptor (glucocorticoid receptor, GR) stimulation. The ligand binding domain of the GR receptor is sufficient for the RIP140 interaction. It has been suggested that both N and C terminal regions of the RIP140 interacts and binds to the GR receptor, thereby modulate the transactivation transcriptional activity of the receptor (2). RIP140 encodes a histone deacetylase (HDAC) inhibitor-sensitive responsive activity (3). These interactions are the result of direct contact of RIP140 and HDAC1 and HDAC-2. The HDAC interaction domain is mapped to its N-terminal domain between amino acid 78 and 303 (3). Cloned RIP140 is a 4307 bp long and the deduced amino acid sequence contain a 1161 amino acid nuclear protein (MW 140 kDa) including a putative HDAC domain near the N-terminal region of the protein. RIP 140 is widely expressed in nuclear fractions of most of the glucocorticoid responsive cells including CNS, adrenals, kidney etc.

FabGennix International Inc. has produced three epitope-specific antibodies for RIP140. The N-terminal epitope (Cat # RIP140-101AP) covers the HDAC binding domain, the mid-region epitope (Cat # RIP140-102AP; around aa 750-770) and a C-terminal epitope (Cat # RIP140-103AP). The polyclonal antibodies to RIP140 label a 140 kDa nuclear protein from nuclear extracts of COS1 cells transfected with human RIP140 cDNA. The RIP140-specific antiserum has no cross reactivity against any other protein tested so far. *FabGennix Inc.* also provides Western blot positive controls for nuclea RIP140 protein in ready-to-use buffer. *FabGennix Int. Inc.*, has made antibodies to other signal transduction targets such as PDE family members, mer tyrosine kinase (MERTK), calmodulin kinase γ , various G-protein coupled receptors (GPCRs), chemokine receptors (CCR1-CCR4), Sec23 protein, several retinal proteins and antibodies to various *Drosophila* proteins.

The RIP140-selective antibodies were generated using circular peptide methodology that results in higher titer and specificity. RIP140-selective antibody is also available in affinity purified form for confocal, Western blotting and immunocytochemical analyses. *FabGennix Inc.* will also conjugate antibodies with enzymes, fluorescent probes upon request at extra charge.

Catalog #	Host species	Nature	Cross reactivity	Quantity	Price
RIP-100P	Rabbit	Polyclonal antiserum	R, M, H	100 ul	205
RIP-101AP	Rabbit	Affinity Purified	R, M, H	100 ug	235
RIP-112AP	Rabbit	Affinity Purified	R, M, H	100 ug	235
RIP-121AP	Rabbit	Affinity Purified	R, M, H	100 ug	235
PC-RIP140	Antigen	RIP140 protein	n/a	5 applications	195
P-RIP140	Peptides	RIP-1, 2 and 3 peptides	n/a	250 ug	65

R = rat; M = mouse; H = human; C = chicken; monk = monkey ; * not all variants are labeled equally

Immunogen: Synthetic peptides (common to RIP140 epitopes)

Concentration: RIP-100P - Neat serum with preservatives; RIP-101/112AP/121AP- IgG concentration 0.7-0.75 mg/ml.

Applications: Antibody RIP140 antibodies are ideal for IMM/WB and IHC applications. The dilutions for this antibody is for reference only, investigators are expected to optimize conditions for specific assay. WB: 1: <1000; IMM & i.p pull-down assays:1:250

Reactivity: This antibody detects a 140 kDa RIP140 protein in nuclear extracts of Cos1 clls transfected with human RIP140 cDNA.

Protocols: Standard protocol for various applications (WB, IMM and IHC) of this antibody is provided with the product specification sheet, however, *FabGennix Inc.* strongly recommends investigators to optimize conditions for use of this antibody. .

Form/Storage: The antiserum is supplied with 0.02% sodium azide. The affinity-purified antibodies are isolated on immobilized antigen-based chromatography and supplied as 0.6-0.75 mg/ml IgG in antibody stabilization buffer. For long-term storage of antibodies, store at -20°C. *FabGennix Inc.* does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DiluOBuffer). Working solutions of antibodies in DiluOBuffer should be filtered through 0.45 μ filter after every use for long-term storage.

References:

1. Windhal S. H., Treuter E., Frod J., Zilliacus J., Gustafsson J. A., McEwan I, J. The nuclear receptor interacting protein 140 binds to the human glucocorticoid receptor and modulates hormone dependent tranac;tivation. *J. Steroid Biochem. Mol. Biol.* 71, 93-201,1999.
2. Sugawara T., Abe, S., Sakuragi N., Fujimoto M., Namura E. et. al., *Endocrinology* 142, 3570-3577, 2001.
3. Wei L. N., Hu, X., chandra D., Farooqui M. Receptor interacting protein 140 directly recruits histoone deacetylises for fgene silencing. *J. Biol. Chem.* 275, 40782-40787.

* For users who may require large amounts of RIP-101AP, RIP-112AP and RIP-121AP, please enquire about bulk material discounts.

This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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