

ARG58758 anti-NR5A1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NR5A1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Gpig, Hrs, Rb, Sheep
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NR5A1
Species	Human
Immunogen	Synthetic peptide around the middle region of Human NR5A1. (within the following sequence: AVPGAHGPLAGYLYPAFPGRAIKSEYPEPYASPPQGLPYGYPEPFSGGP)
Conjugation	Un-conjugated
Alternate Names	SRXY3; Nuclear receptor subfamily 5 group A member 1; POF7; SF-1; SPGF8; FTZ1; FTZF1; SF1; Steroid hormone receptor Ad4BP; Fushi tarazu factor homolog 1; AD4BP; Adrenal 4-binding protein; ELP; Steroidogenic factor 1; STF-1

Application Instructions

Predict Reactivity Note	Predicted homology based on immunogen sequence: Cow: 92%; Dog: 92%; Guinea Pig: 92%; Horse: 92%; Mouse: 79%; Rabbit: 85%; Rat: 92%; Sheep: 85%				
Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>WB</td><td>0.2 - 1 µg/ml</td></tr> </table>	Application	Dilution	WB	0.2 - 1 µg/ml
Application	Dilution				
WB	0.2 - 1 µg/ml				
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.				
Positive Control	HepG2				

Properties

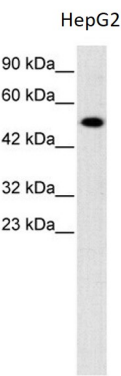
Form	Liquid
Purification	Affinity purified.
Buffer	PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.
Preservative	0.09% (w/v) Sodium azide
Stabilizer	2% Sucrose
Concentration	Batch dependent: 0.5 - 1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	NR5A1
Gene Full Name	nuclear receptor subfamily 5, group A, member 1
Background	The protein encoded by this gene is a transcriptional activator involved in sex determination. The encoded protein binds DNA as a monomer. Defects in this gene are a cause of XY sex reversal with or without adrenal failure as well as adrenocortical insufficiency without ovarian defect. [provided by RefSeq, Jul 2008]
Function	Transcriptional activator. Seems to be essential for sexual differentiation and formation of the primary steroidogenic tissues. Binds to the Ad4 site found in the promoter region of steroidogenic P450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the AMH/Muellerian inhibiting substance gene as well as the AHCH and STAR genes. 5'-YCAAGGYC-3' and 5'-RRAGGTCA-3' are the consensus sequences for the recognition by NR5A1. The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3. Activated by the phosphorylation of NR5A1 by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. [UniProt]
Calculated Mw	52 kDa
PTM	Acetylation stimulates the transcriptional activity. Sumoylation reduces CDK7-mediated phosphorylation on Ser-203. Phosphorylated on Ser-203 by CDK7. This phosphorylation promotes transcriptional activity. [UniProt]

Images



ARG58758 anti-NR5A1 antibody WB image

Western blot: HepG2 cell lysate stained with ARG58758 anti-NR5A1 antibody at 0.2 - 1 µg/ml dilution.