

Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody
Catalog # ABO13804**Specification**

Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody - Product Information

Application	WB
Primary Accession	O00482
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 2494

Other Names

Nuclear receptor subfamily 5 group A member 2, Alpha-1-fetoprotein transcription factor, B1-binding factor, hB1F, CYP7A promoter-binding factor, Hepatocytic transcription factor, Liver receptor homolog 1, LRH-1, NR5A2, B1F, CPF, FTF

Calculated MW

61331 MW KDa

Application Details

WB 1:500-1:2000

Subcellular Localization

Nucleus.

Tissue Specificity

Abundantly expressed in pancreas, less in liver, very low levels in heart and lung. Expressed in the Hep-G2 cell line. Isoform 1 and isoform 2 seem to be present in fetal and adult liver and Hep-G2 cells.

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human NR5A2

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody - Protein Information

Name NR5A2 {ECO:0000303|PubMed:11595170, ECO:0000312|HGNC:HGNC:7984}

Function

Orphan nuclear receptor that binds DNA as a monomer to the 5'-TCAAGGCCA-3' sequence and controls expression of target genes: regulates key biological processes, such as early embryonic development, cholesterol and bile acid synthesis pathways, as well as liver and pancreas morphogenesis (PubMed: [16289203](http://www.uniprot.org/citations/16289203), PubMed: [18410128](http://www.uniprot.org/citations/18410128), PubMed: [21614002](http://www.uniprot.org/citations/21614002), PubMed: [32433991](http://www.uniprot.org/citations/32433991), PubMed: [38409506](http://www.uniprot.org/citations/38409506), PubMed: [9786908](http://www.uniprot.org/citations/9786908)). Ligand-binding causes conformational change which causes recruitment of coactivators, promoting target gene activation (PubMed: [21614002](http://www.uniprot.org/citations/21614002)). The specific ligand is unknown, but specific phospholipids, such as phosphatidylethanolamine, phosphatidylserine, dilauroyl phosphatidylcholine and diundecanoyl phosphatidylcholine can act as ligand in vitro (PubMed: [15707893](http://www.uniprot.org/citations/15707893), PubMed: [15723037](http://www.uniprot.org/citations/15723037), PubMed: [15897460](http://www.uniprot.org/citations/15897460), PubMed: [21614002](http://www.uniprot.org/citations/21614002), PubMed: [22504882](http://www.uniprot.org/citations/22504882), PubMed: [23737522](http://www.uniprot.org/citations/23737522), PubMed: [26416531](http://www.uniprot.org/citations/26416531), PubMed: [26553876](http://www.uniprot.org/citations/26553876)). Acts as a pioneer transcription factor, which unwraps target DNA from histones and elicits local opening of closed chromatin (PubMed: [38409506](http://www.uniprot.org/citations/38409506)). Plays a central role during preimplantation stages of embryonic development (By similarity). Plays a minor role in zygotic genome activation (ZGA) by regulating a small set of two-cell stage genes (By similarity). Plays a major role in morula development (2-16 cells embryos) by acting as a master regulator at the 8-cell stage, controlling expression of lineage-specifying transcription factors and genes involved in mitosis, telomere maintenance and DNA repair (By similarity). Zygotic NR5A2 binds to both closed and open chromatin with other transcription factors, often at SINE B1/Alu repeats DNA elements, promoting chromatin accessibility at nearby regulatory regions (By similarity). Also involved in the epiblast stage of development and embryonic stem cell pluripotency, by promoting expression of POU5F1/OCT4 (PubMed: [27984042](http://www.uniprot.org/citations/27984042)). Regulates other processes later in development, such as formation of connective tissue in lower jaw and middle ear, neural stem cell differentiation, ovarian follicle development and Sertoli cell differentiation (By similarity). Involved in exocrine pancreas development and acinar cell differentiation (By similarity). Acts as an essential transcriptional regulator of lipid metabolism (PubMed: [20159957](http://www.uniprot.org/citations/20159957)). Key regulator of cholesterol 7-alpha-hydroxylase gene (CYP7A) expression in liver (PubMed: [10359768](http://www.uniprot.org/citations/10359768)). Also acts as a negative regulator of inflammation in different organs, such as, liver and pancreas (PubMed: [20159957](http://www.uniprot.org/citations/20159957)). Protects against intestinal inflammation via its ability to regulate glucocorticoid production (By similarity). Plays an anti-inflammatory role during the hepatic acute phase response by acting as a

corepressor: inhibits the hepatic acute phase response by preventing dissociation of the N-Cor corepressor complex (PubMed:20159957). Acts as a regulator of immunity by promoting lymphocyte T-cell development, proliferation and effector functions (By similarity). Also involved in resolution of endoplasmic reticulum stress in the liver (By similarity).

Cellular Location

Nucleus. Chromosome

Tissue Location

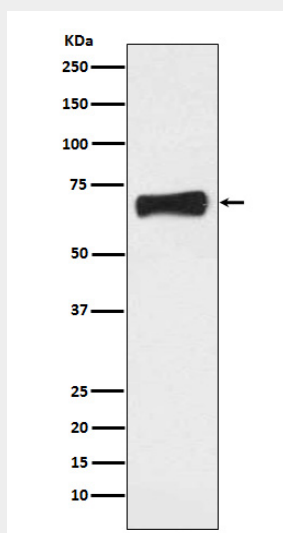
Abundantly expressed in pancreas, less in liver, very low levels in heart and lung. Expressed in the Hep-G2 cell line (PubMed:9786908). Isoform 1 and isoform 2 seem to be present in fetal and adult liver and Hep-G2 cells (PubMed:10359768)

Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody - Protocols

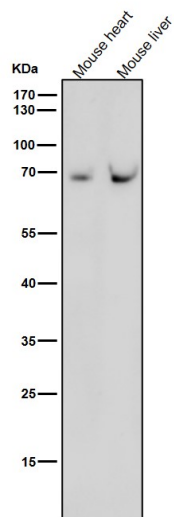
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

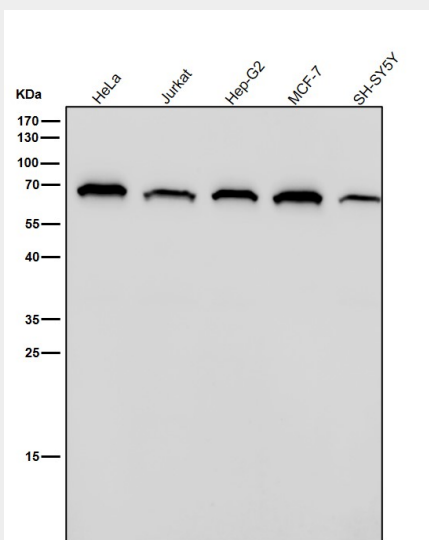
Anti-NR5A2/Lrh 1 Rabbit Monoclonal Antibody - Images



Western blot analysis of NR5A2 expression in MCF7 cell lysate.



All lanes use the Antibody at 1:3W dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:3W dilution for 1 hour at room temperature.