SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FOXA2 antibody

Catalog Number: SL2358R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FOXA2
Immunogen:	KLH conjugated synthetic peptide derived from human FOXA2: 201-300/457
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Chicken,Pig,Cow,Horse)
Predicted MW.:	50kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. This gene has been linked to sporadic cases of maturity-onset diabetes of the young. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008] **Function:** Transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with the consensus sequence 5'-

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	[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3'. In embryonic development is required for notochord formation. Involved in the development of multiple endoderm-derived organ systems such as the liver, pancreas and lungs; FOXA1 and FOXA2 seem to have at least in part redundant roles. Originally discribed as a transcription activator for a number of liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes. Involved in glucose homeostasis; regulates the expression of genes important for glucose sensing in pancreatic beta-cells and glucose homeostasis. Involved in regulation of fat metabolism. Binds to fibrinogen beta promoter and is involved in IL6-induced fibrinogen beta transcriptional activation. **Subunit:** Binds DNA as a monomer. Binds TLE1. Interacts with FOXA1 and FOXA3. Interacts with PRKDC. **Subcellular Location:** Nucleus. Cytoplasm. **Post-translational modifications:** Phosphorylation on Thr-156 abolishes binding to target promoters and subsequent transcription activation upon insulin stimulation. **Similarity:** Contains 1 fork-head DNA-binding domain. **Database links:** **Entrez Gene:** 3170 Human **Entrez Gene:** 15376 Mouse **Entrez Gene:** 25099 Rat Omim: 600288 Human **SwissProt:** Q9Y261 Human **SwissProt:** P35583 Mouse **SwissProt:** P32182 Rat **Unigene:** 155651 Human

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[VALIDATION IMAGES]

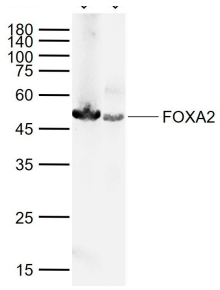


Figure 1. Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Rat Liver tissue lysates Primary: Anti-FOXA2 (SL2358R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 50 kDa

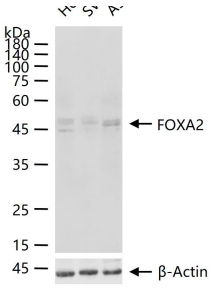


Figure 2. 25 ug total protein per lane of various lysates (see on figure) probed with FOXA2 polyclonal antibody, unconjugated (SL2358R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

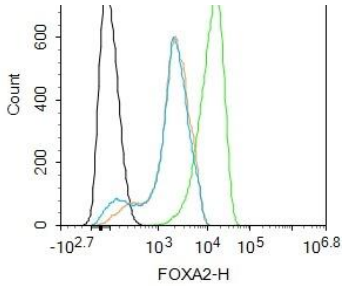


Figure 3. Blank control (black line) :HepG2. Primary Antibody (green line): Rabbit Anti-FOXA2 antibody (SL2358R) Dilution:1ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-BF488 Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

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