

Rabbit FOXA2 Polyclonal Antibody | anti-FOXA2 antibody

FOXA2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328967	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)	ELISA

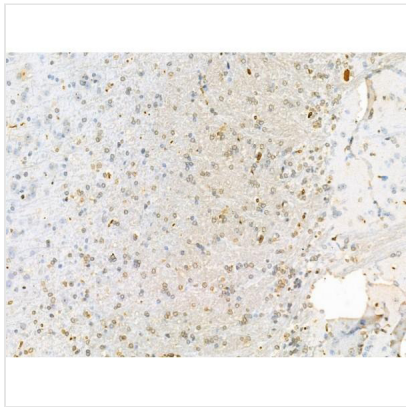
PRODUCT SYNONYMS

FOXA2; Polyclonal Antibody; FOXA2 Antibody; Forkhead box A2; Forkhead box protein A2; FOX A2; foxa2; FOXA2_HUMAN; Hepatic nuclear factor 3 beta; Hepatocyte nuclear factor 3; Hepatocyte nuclear factor 3 beta; Hepatocyte nuclear factor 3-beta; HNF 3B; HNF-3-beta; HNF-3B; HNF3B; MGC19807; TCF 3B; TCF-3B; TCF3B; Transcription factor 3B; anti-FOXA2 antibody

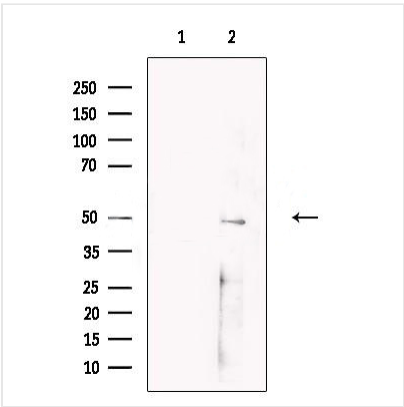
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Zebrafish(88%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	FOXA2 Antibody detects endogenous levels of total FOXA2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	463
Applicable Applications for anti-FOXA2 antibody	ELISA
Immunogen	A synthesized peptide derived from human FOXA2, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA328967 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells, using FOXA2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FOXA2 antibody	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'-[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3' (By similarity). 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 described 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. Post Translational Modifications: Phosphorylation on Thr-156 abolishes binding to target promoters and subsequent transcription activation upon insulin stimulation. Subcellular Location: Nucleus. Cytoplasm. Note: Shuttles between the nucleus and cytoplasm in a CRM1-dependent manner; in response to insulin signaling via AKT1 is exported from the nucleus. Subunit Structure: Binds DNA as a monomer. Binds TLE1 (By similarity). Interacts with FOXA1 and FOXA3. Interacts with PRKDC.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	194394143
NCBI GeneID	3170
NCBI Accession #	NP_068556.2
NCBI GenBank Nucleotide #	NP_068556.2
UniProt Accession #	Q9Y261
Molecular Weight	Observed Molecular Weight: (Observed)48kD. Predicted Molecular Weight: (Calculated)48kDa.
NCBI Official Full Name	hepatocyte nuclear factor 3-beta isoform 1
NCBI Official Synonym Full Names	forkhead box A2

NCBI Official Symbol	FOXA2
NCBI Official Synonym Symbols	HNF3B; TCF3B; HNF-3-beta
NCBI Protein Information	hepatocyte nuclear factor 3-beta
UniProt Protein Name	Hepatocyte nuclear factor 3-beta
UniProt Gene Name	FOXA2
UniProt Synonym Gene Names	HNF3B; TCF3B; HNF-3-beta; HNF-3B; TCF-3B
UniProt Entry Name	FOXA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/foxa2-antibody-elisa/328967>