Human HNF-3β/FoxA2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2400

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HNF-3β/FoxA2 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human HNF-3β/FoxA2 Met242-Ser457 Accession # Q9Y261
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

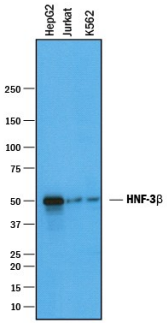
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 µg/5 x 10^6 cells	See Below
Immunocytochemistry	5-15 µg/mL	See Below

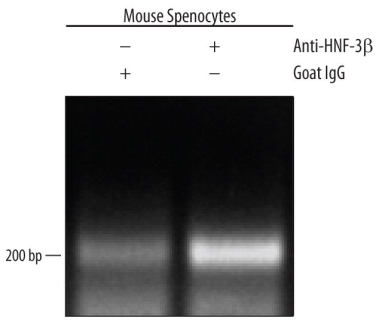
DATA

Western Blot



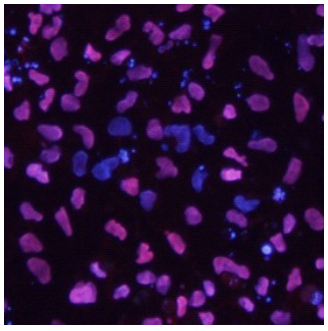
Detection of Human HNF-3β/FoxA2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line, Jurkat human acute T cell leukemia cell line, and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human HNF-3β/FoxA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2400) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for HNF-3β/FoxA2 at approximately 48 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Chromatin Immunoprecipitation (ChIP)



Detection of HNF-3β/FoxA2-regulated Genes by Chromatin Immunoprecipitation. Mouse splenocytes were fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. HNF-3β/FoxA2/DNA complexes were immunoprecipitated using 5 µg Goat Anti-Human HNF-3β/FoxA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2400) or control antibody (Catalog # AB-108-C) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Goat IgG Secondary Antibody (Catalog # BAF109). Immunocomplexes were captured using 50 µL of MagCellect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The *E-RABP* promoter was detected by standard PCR.

Immunocytochemistry



HNF-3β/FoxA2 in Endoderm Differentiated BG01V Human Stem Cells. HNF-3β/FoxA2 was detected in immersion fixed endoderm differentiated BG01V human embryonic stem cells using 10 µg/mL Goat Anti-Human HNF-3β/FoxA2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2400) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

HNF-3β, also known as FoxA2, is a member of the forkhead class of DNA-binding proteins. It is a transcriptional activator for liver-specific transcripts such as albumin and transthyretin. Similar family members play roles in the differentiation of the pancreas and liver.

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