

AbboMax, Inc

Innovation at Work

Order Information

Description: Rabbit anti-FOXA2
Catalogue#: 601-580
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB,
Reactivity: Hu, Rt, Ms

Rabbit anti-FOXA2/HNF3B Polyclonal Antibody

Synonym: Forkhead Box A2 (FOXA2); Hepatocyte nuclear factor 3 beta (HNF3B)

ANTIGEN PREPARATION

A synthetic peptide corresponding to the C-terminus of human FOXA2 protein. This sequence is identical to rat, mouse and human origins.

BACKGROUND

The forkhead box gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific transcripts 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. FOXA1 plays an important role in breast cancer. The FOXA subfamily is composed of the transcription factors FOXA1, A2, A3. They were discovered as the regulators of hepatic genes. Regularly, the plasma insulin inhibits the forkhead transcription factor Foxa2. The cytoplasmic localization and inactivation of Foxa2 are observed in the chronic hyperinsulinaemia of insulin-resistant syndromes, thereby promoting lipid accumulation and insulin resistance in the liver. Pharmacological intervention to inhibit phosphorylation of Foxa2 may be an effective treatment for type 2 diabetes.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~48 kDa of FOXA2 protein. It also reacts with human, mouse and rat. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile phosphate-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

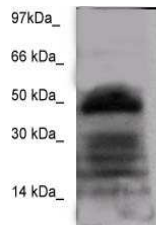
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	Not tested
Flow cytometry	Not tested

MOLECULAR WEIGHT:	~48 kDa
POSITIVE CONTROL:	Huh 7 cells
CELLULAR LOCATION:	Nuclear

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



WB: Huh7 cell lysate stained by RbxFOXA2 at 1:2000

REFERENCES

Wolfrum C, et al. Foxa2 regulates lipid metabolism and ketogenesis in the liver during fasting and in diabetes. Nature, 2004 Dec 23;432 (7020):1027-32.

FOR RESEARCH USE ONLY.

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