Mouse Monoclonal Antibody FOXO3A (phospho Ser253) conjugated to Sepharose Beads

CatalogNo: ANT8032-M

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

FOXO3A (phospho Ser253) (ANT0061R) Rabbit mAb

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat,	• WB,IHC,IF,IP,ELISA

MW	Isotype
• 71kD (Calculated) 97kD (Observed)	• IgG,Kappa

Recommended Dilution Ratios

IP

Basic Information

Clonality	Monoclonal

Clone Number ANT0061R

Immunogen Information **Specificity**

Endogenous

Gene name FOXO3

Protein Name Forkhead box protein O3

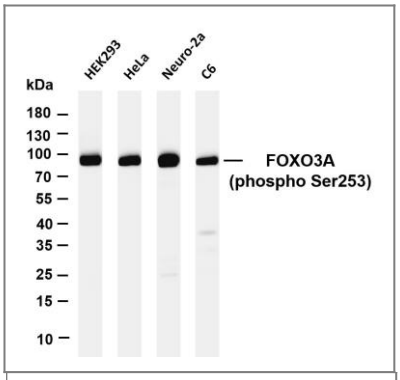
Organism	Gene ID	UniProt ID
Human	2309;	O43524;
Mouse	56484;	Q9WVH4;

Cellular Localization Cytoplasm

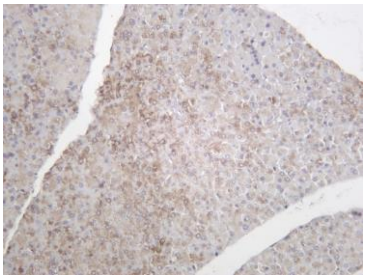
Tissue specificity Ubiquitous.

Function Disease:A chromosomal aberration involving FOXO3 is found in secondary acute leukemias. Translocation t(6;11)(q21;q23) with MLL/HRX.,Function:Transcriptional activator which triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress. Recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3'.,ANTM:In the presence of survival factors such as IGF-1, phosphorylated on Thr-32 and Ser-253 by AKT1/PKB. This phosphorylated form then interacts with 14-3-3 proteins and is retained in the cytoplasm. Survival factor withdrawal induces dephosphorylation and promotes translocation to the nucleus where the dephosphorylated protein induces transcription of target genes and triggers apoptosis. Although AKT1/PKB doesn't appear to phosphorylate Ser-315 directly, it may activate other kinases that trigger phosphorylation at this residue. Phosphorylated by STK4 on Ser-209 upon oxidative stress, which leads to dissociation from YWHAB/14-3-3-beta and nuclear translocation.,similarity:Contains 1 fork-head DNA-binding domain.,subcellular location:Translocates to the nucleus upon oxidative stress and in the absence of survival factors.,subunit:Interacts with YWHAB/14-3-3-beta and YWHAZ/14-3-3zeta, which are required for cytosolic sequestration. Upon oxidative stress, interacts with
STK4, which disrupts interaction with YWHAB/14-3-3-beta and leads to nuclear translocation.,tissue specificity:Ubiquitous.,

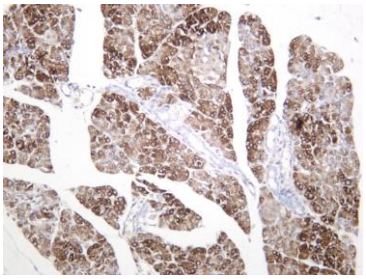
Validation Data



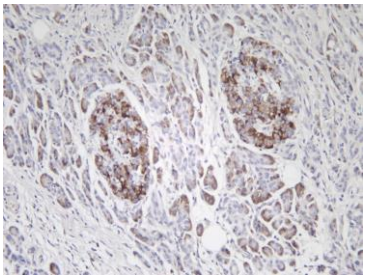
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-FOXO3A (ANT0061R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1:HEK293 Lane 2: Hela Lane 3: Neuro-2a Lane 4: C6 Predicted band size: 71kDa Observed band size: 97kDa



Mouse pancreas was stained with anti-FOXO3A (phospho Ser253) rabbit antibody



Rat pancreas was stained with anti-FOXO3A (phospho Ser253) rabbit antibody



Human pancreas was stained with anti-FOXO3A (phospho Ser253) rabbit antibody

Contact Antagene Inc Tel 1-866-964-2589 Email: info@antageneinc.com