

FOXO3 α Polyclonal Antibody

CATALOG NO:	3673-30T 30 μ g (Trial size) 3673-100 100 μ g
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide corresponding to residues on the C-terminus of human FOXO3a (Internal ID# BV-529)
SPECIES REACTIVITY:	Human, Mouse, Rat

FORMULATION:

0.2 mg/ml affinity purified rabbit anti-FOXO3a polyclonal antibody in phosphate-buffered saline (PBS) containing 0.5% BSA, 30% glycerol, and 0.01% thimerosal.

STORAGE CONDITIONS:

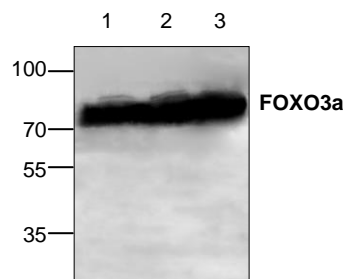
Store at 4°C for short term. For long term storage, aliquot and freeze at -20°C or -70°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

Mammalian forkhead members of the class O (FOXO) transcription factors, including FOXO1, FOXO3a, and FOXO4, are implicated in the regulation of a variety of cellular processes, including the cell cycle, apoptosis, DNA repair, stress resistance, and metabolism. FOXO proteins are negatively regulated by the phosphatidylinositol 3-kinase-Akt signaling pathway, which is activated by growth factors and cytokines. Recent studies indicate that the activities of FOXO proteins are also regulated by oxidative stress, which induces their phosphorylation, translocation to the nucleus, and acetylation-deacetylation. Similar to the tumor suppressor p53, FOXO is activated by stress and induces the expression of genes that contribute to cell-cycle arrest, suggesting that it also functions as a tumor suppressor.

APPLICATION:

The antibody can be used for Western blotting (0.5-4 μ g/ml). Jurkat cell lysate (Cat.# 2401-100) and rat liver or rat kidney tissue lysate can be used as a positive control. A ~75 kDa band should be detected. Blocking peptide (Cat.# 3673BP-50) is available separately.

**Cat #: 3673-100**

Western blot analysis of FOXO3a expression in lysate from Jurkat cells (Lane 1), Rat liver (Lane 2) and Rat kidney (Lane 3).

RELATED PRODUCTS:

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione Fluorometric & Colorimetric Assay Kits
- Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit

Antibodies & Recombinant Proteins (many)