

Basic Information

Product Name	Anti-FOXO3A/FOXO3 Antibody (Clone#HFD-6)
Gene Name	FOXO3
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human FoxO3a
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	80-100 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200

Storage

12 months from date of receipt, -20°C as supplied.

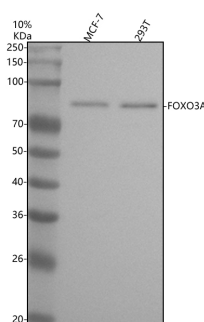
Background Information

Forkhead box O3, also known as FKHL1 or FOXO3a, is a human protein encoded by the FOXO3 gene. FOXO3 belongs to the O subclass of the forkhead family of transcription factors which are characterized by a distinct fork head DNA-binding domain. It is mapped to 6q21. This protein likely functions as a trigger for apoptosis through upregulation of genes necessary for cell death, such as Bim and PUMA, or downregulation of anti-apoptotic proteins such as FLIP. In mammals FOXO3 regulates the resistance of cells to stress by inducing DNA repair and thereby may also affect organismal life span. In addition, it is thought that FOXO3 is also involved in protection from oxidative stress by upregulating antioxidants such as catalase and MnSOD.

Reference

Anti-FOXO3A/FOXO3 Antibody (Clone#HFD-6)被引用在4文献中。

Selected Validation Data



Western blot analysis of anti-FOXO3A/FOXO3 antibody (BM4734).

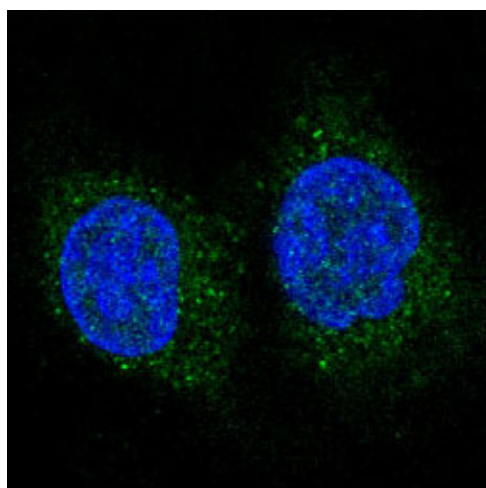
The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

Lane 2: human 293T whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-FOXO3A/FOXO3 antigen affinity purified monoclonal antibody (BM4734) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for FOXO3A/FOXO3 at approximately 90 kDa. The expected band size for FOXO3A/FOXO3 is at 71 kDa.



Immunofluorescent analysis of HeLa cells, using FoxO3a Antibody.