

Rabbit FoxO3a Polyclonal Antibody | anti-FOXO3 antibody

FoxO3a Rabbit pab Antibody

CATALOG # AAA36654	HOST Rabbit	APPLICATIONS Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot
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PRODUCT SYNONYMS

FoxO3a; Polyclonal Antibody; FoxO3a Rabbit pab Antibody; Fkhr2; FKHL1; Foxo3a; 1110048B16Rik; 2010203A17Rik; anti-FOXO3 antibody

PRODUCT SPECIFICATIONS

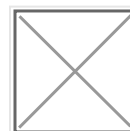
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	Liquid ; PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Sequence Length	673
Applicable Applications for anti-FOXO3 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-156 of mouse FOXO3A (NP_062714.1).
Cross Reactivity	Human, Mouse, Rat
Preparation and Storage	Store at -20°C. Avoid freeze / thaw cycles.

IMAGES



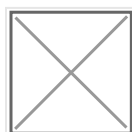
IF (Immunofluorescence)

Immunofluorescence analysis of NIH-3T3 cells using FOXO3A Rabbit pAb (AAA36654) at dilution of 100 (40x lens). Blue: DAPI for nuclear staining.



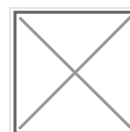
IF (Immunofluorescence)

Immunofluorescence analysis of C6 cells using FOXO3A Rabbit pAb (AAA36654) at dilution of 100 (40x lens). Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Mouse kidney using FOXO3A Rabbit pAb (AAA36654) at dilution of 1:50 (40xlens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human colon using FOXO3A Rabbit pAb (AAA36654) at dilution of 1:50 (40xlens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using FOXO3A antibody (AAA36654) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 5s.

ADDITIONAL INFORMATION

Related Product Information for anti-FOXO3 antibody	Rabbit polyclonal to FoxO3a The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a) have sequence similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involving IGFR1, PI3K, and Akt (4-6). Active forkhead members act as tumor suppressors by promoting cell cycle arrest and apoptosis. Increased expression of any FoxO member results in the activation of the cell cycle inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF-beta-mediated upregulation of p21 Cip1, a process negatively regulated through PI3K (7). Increased proliferation results when forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser256, and Ser319, which results in nuclear export and inhibition of transcription factor activity (8). Forkhead transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9). In FoxO3a, the three sites phosphorylated by Akt mentioned above are Thr32, Ser253 and Ser315. FoxO3a associates with 14-3-3 proteins upon phosphorylation by Akt and is retained in the cytoplasm. In the absence of survival factors, FoxO3a is dephosphorylated, translocates to the nucleus and triggers cell death by a Fas ligand-dependent mechanism (7).
References	1. Anderson, M.J. et al. (1998) Genomics 47, 187-199. 2. Galili, N. et al. (1993) Nat. Genet. 5, 230-235. 3. Borkhardt, A. et al. (1997) Oncogene 14, 195-202. 4. Nakae, J. et al. (1999) J. Biol. Chem. 274, 15982-15985. 5. Rena, G. et al. (1999) J. Biol. Chem. 274, 17179-17183. 6. Guo, S. et al. (1999) J. Biol. Chem. 274, 17184-17192. 7. Seoane, J. et al. (2004) Cell 117, 211-223. 8. Arden, K.C. (2004) Mol. Cell 14, 416-418. 9. Yang, Y. et al. (2005) EMBO J. 24, 1021-1032.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503739
NCBI GeneID	56484
NCBI Accession #	NP_001446.1
NCBI GenBank Nucleotide #	NM_001455.3
UniProt Accession #	Q9WVH4 ; O15171 ; Q5T2I7 ; Q9BZ04 ; E1P5E6 ; O43524
Molecular Weight	Observed MW: 80-90KDa Calculated MW: 71kDa
NCBI Official Full Name	forkhead box protein O3
NCBI Official Synonym Full Names	forkhead box O3
NCBI Official Symbol	FOXO3
NCBI Official Synonym Symbols	FOXO2; AF6q21; FKHRL1; FOXO3A; FKHRL1P2
NCBI Protein Information	forkhead box protein O3; forkhead box O3A; forkhead in rhabdomyosarcoma-like 1; forkhead homolog (rhabdomyosarcoma) like 1; forkhead, Drosophila, homolog of, in rhabdomyosarcoma-like 1
UniProt Protein Name	Forkhead box protein O3
UniProt Gene Name	FOXO3
UniProt Synonym Gene Names	FKHRL1; FOXO3A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/foxo3a-antibody-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/36654>