

FOXO3A Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant FOXO3A.

Catalog # AT2101a

Product Information

Application	IHC, IF, E
Primary Accession	O43524
Other Accession	BC021224
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1B11
Calculated MW	71277

Additional Information

Gene ID	2309
Other Names	Forkhead box protein O3, AF6q21 protein, Forkhead in rhabdomyosarcoma-like 1, FOXO3, FKHL1, FOXO3A
Target/Specificity	FOXO3A (AAH21224, 361 a.a. ~ 460 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FOXO3A Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

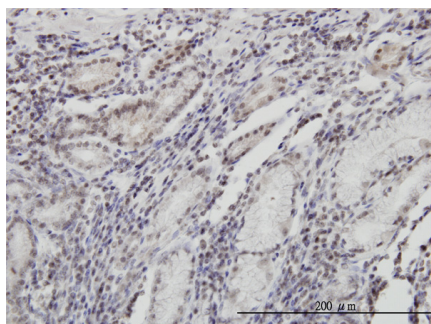
This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed.

References

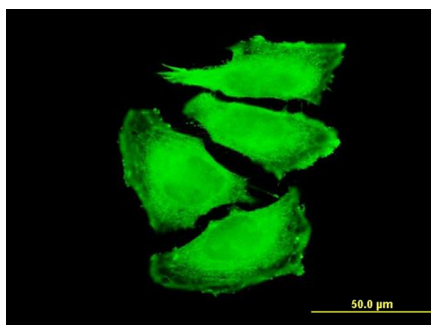
An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014.FOXO3 encodes a carcinogen-activated transcription factor

frequently deleted in early-stage lung adenocarcinoma. Mikse OR, et al. Cancer Res, 2010 Aug 1. PMID 20631076. Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Foxo3a regulates apoptosis by negatively targeting miR-21. Wang K, et al. J Biol Chem, 2010 May 28. PMID 20371612.

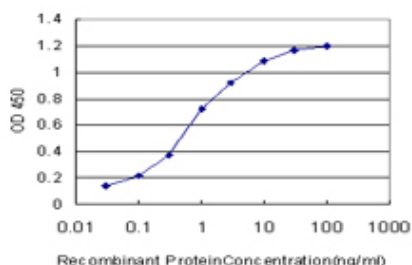
Images



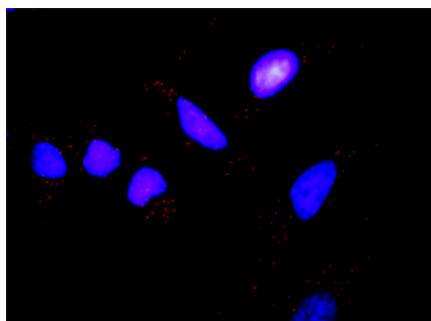
Immunoperoxidase of monoclonal antibody to FOXO3A on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to FOXO3 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged FOXO3A is approximately 0.03ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between IKBKB and FOXO3. HeLa cells were stained with anti-IBKKB rabbit purified polyclonal 1:1200 and anti-FOXO3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.