

## FoxO3A Mouse Monoclonal Antibody

### Catalog #: EAB21397

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Mouse IgG2a	Monoclonal	WB, IHC-P, IF/ICC	71	Human

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB(Western Blotting)	1:500-2000
IHC-P(Immunohistochemistry-Paraffin)	1:50-300
IF/ICC(Immunofluorescence/Immunocytochemistry)	1:50-300

### Product Information

Conjugate	Unconjugate
Specificity	FoxO3A Mouse Monoclonal Antibody detects endogenous levels of FoxO3A protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks
UniProt ID	<a href="#">O43524</a>
Entrez-Gene Id	<a href="#">2309</a>

### Product Description

FOXO3 (forkhead box O3) or FOXO3A, also known as FKHL1 (forkhead in rhabdomyosarcoma-like 1), is a 673 amino acid transcriptional activator that belongs to the FKHL subfamily of forkhead transcription factors. Transcriptional activation of FKHL proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHL1 at Threonine 32 and Serine 253. Phosphorylation by Akt1 negatively regulates FKHL1 by promoting its export from the nucleus. Phosphorylated FKHL1 associates with 14-3-3 proteins and this complex is retained in the cytoplasm. Growth factor withdrawal stimulates FKHL1 dephosphorylation and nuclear translocation, leading to FKHL-induced gene-specific transcriptional activation. Within the nucleus, dephosphorylated FKHL1 triggers apoptosis by inducing the expression of genes that are critical for cell death.

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