



Rabbit Anti-FOXO3A monoclonal antibody, clone TU50-12 (CABT-L673)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Phospho-FOXO3a(S253)
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TU50-12
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	71 kDa
Cellular Localization	Cytoplasm, Nucleus.
Positive Control	PC12, Hela, human tonsil tissue, human breast carcinoma tissue, human pancreas tissue, mouse pancreas tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	FKHRL1 (for forkhead in rhabdomyosarcoma) is a member of the FKHR subfamily of forkhead transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHRL1 at threonine-32 and serine-253. Phosphorylation by Akt1 negatively regulates FKHRL1 by promoting its export from the nucleus. Phosphorylated FKHRL1 associates with 14-3-3 proteins and this complex is retained in the cytoplasm. Growth factor withdrawal stimulates FKHRL1 dephosphorylation and nuclear translocation, leading to FKHR-induced gene-specific transcriptional activation. Within the nucleus, dephosphorylated FKHRL1 triggers apoptosis by inducing the expression of genes that are critical for cell death.
Keywords	AF6q21;AF6q21 protein;DKFZp781A0677;FKHR2;FKHRL 1;FKHRL1;FKHRL1P2;Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1;Forkhead box O3;Forkhead box O3A;Forkhead box protein O3;Forkhead box protein O3A;Forkhead Drosophila homolog of in rhabdomyosarcoma like 1;Forkhead homolog (rhabdomyosarcoma) like 1;Forkhead in rhabdomyosarcoma like 1;Forkhead in rhabdomyosarcoma-like 1;FOX O3A;FOXO2;foxo3;FOXO3_HUMAN;FOXO3A;MGC12739;MGC31925 antibody