FoxO3a (Phospho-Ser574) Antibody

Catalog No: #12874

Package Size: #12874-1 50ul #12874-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

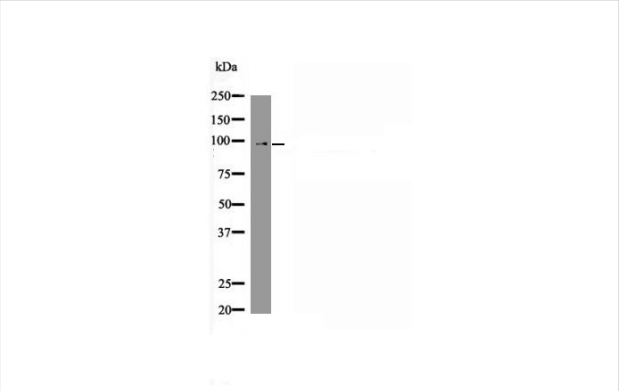
Product Name	FoxO3a (Phospho-Ser574) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	Phospho-FoxO3a (S574) Antibody detects endogenous levels of FoxO3a only when phosphorylated at S574
Immunogen Type	Peptide-KLH
Immunogen Description	A synthesized peptide derived from human FoxO3a (Phospho-Ser574)
Conjugates	Unconjugated
Target Name	FOXO3
Other Names	AF6q21 antibody AF6q21 protein antibody DKFZp781A0677 antibody FKHR2 antibody FKHRL 1 antibody FKHRL1 antibody FKHRL1P2 antibody Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1 antibody Forkhead box O3 antibody Forkhead box O3A antibody Forkhead box protein O3 antibody Forkhead box protein O3A antibody Forkhead Drosophila homolog of in rhabdomyosarcoma like 1 antibody Forkhead homolog (rhabdomyosarcoma) like 1 antibody Forkhead in rhabdomyosarcoma like 1 antibody Forkhead in rhabdomyosarcoma-like 1 antibody FOX O3A antibody FOXO2 antibody foxo3 antibody FOXO3_HUMAN antibody FOXO3A antibody MGC12739 antibody MGC31925 antibody
Accession No.	Swiss-Prot#:O43524 NCBI Gene ID2309
Calculated MW	97
Concentration	1.0mg mL

Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+) pH 7.4 150mM NaCl 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

WB dilution:1:1000

Images



Western blot analysis FoxO3a (Phospho-Ser574) using TNF-a treated 293 whole cell lysates

Product Description

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-β-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).

p38 phosphorlyates FoxO3a at Ser7 and promotes its nuclear localization (10).

Published Papers

Cui Ran-Ji;Gao Shuo-Hui;Guo Qiu-Shi;Li Bing-Jin;Sun Li-Rui;Sun Zhi-Hui;Yang Wei;Zhang Hong-Mei;Zhou Wei el at., Modulation of Multiple Signaling Pathways of the Plant-Derived Natural Products in Cancer, , (2019)

PMID:31781485

Note: This product is for in vitro research use only and is not intended for use in humans or animals.