FOXO4 (Phospho-Thr451) Antibody

Catalog No: #12053

Package Size: #12053-1 50ul #12053-2 100ul

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

Description

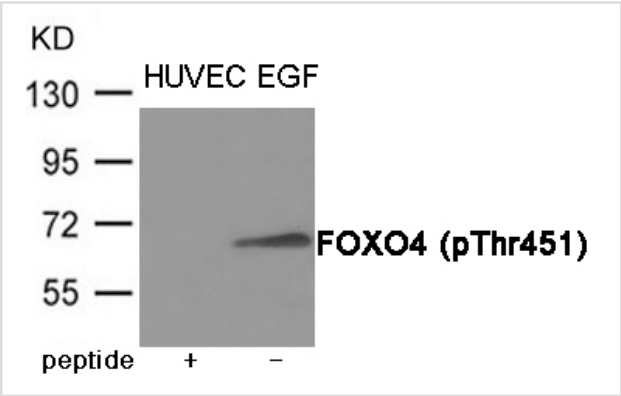
Product Name	FOXO4 (Phospho-Thr451) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of FOXO4 only when phosphorylated at Threonine 451.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Threonine 451 (L-G-T(p)-P-V) derived from Human FOXO4.
Conjugates	Unconjugated
Target Name	FOXO4
Modification	Phospho
Other Names	AFX, AFX1, MLLT7
Accession No.	Swiss-Prot#: P98177; NCBI Gene#: 4303; NCBI Protein#: NP_001164402.1
SDS-PAGE MW	65kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL 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/1 year

Application Details

Predicted MW: 65kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from HUVEC cells treated with EGF using FOXO4 (Phospho-Thr451) Antibody #12053.The lane on the left is treated with the antigen-specific peptide.

Background

Transcription factor involved in the regulation of the insulin signaling pathway. Binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. Down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. Also involved in negative regulation of the cell cycle. Involved in increased proteasome activity in embryonic stem cells (ESCs) by activating expression of PSMD11 in ESCs, leading to enhanced assembly of the 26S proteasome, followed by higher proteasome activity.

Published Papers

el at., FoxO4 activity is regulated by phosphorylation and the cellular environment during dehydration in the African clawed frog, Xenopus laevis.On Int J Neurosci.On 2018 Dec by Zh o H, Liu Y et al..PMID:29883225, , (2018)

PMID:29883225

el at., Inhibition of skeletal muscle atrophy during torpor in ground squirrels occurs through downregulation of MyoG and inactivation of Foxo4.In Cryobiology on 2016 Oct by Yichi Zhang , Shannon N Tessier et al..PMID:27593478, , (2016)

PMID:27593478

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