

FOXO1 (Forkhead box O1) (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone FOXO1/9792]

Catalog No	Format	Size
2308-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2308-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2308-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

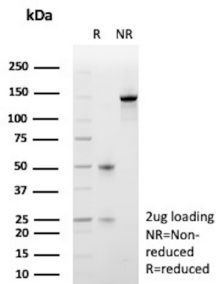
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

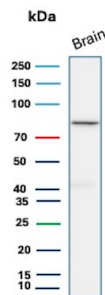
Clone	FOXO1/9792
Gene Name	FOXO1
Immunogen	Recombinant fragment (around aa450-650) of human FOXO1 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	80kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Human brain, skeletal muscle, ovary or prostate.

*Optimal dilution for a specific application should be determined.

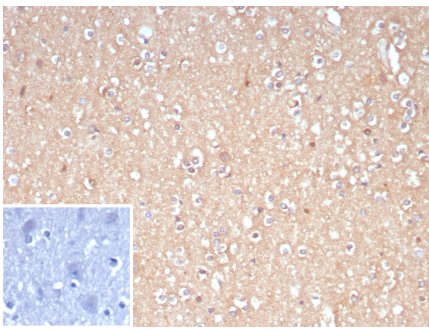
Product Images for FOXO1 (Forkhead box O1) (Transcription Factor) Antibody



SDS-PAGE Analysis of Purified FOXO1 Mouse Monoclonal Antibody (FOXO1/9792). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of human brain lysate using FOXO1 Mouse Monoclonal Antibody (FOXO1/9792).



Formalin-fixed, paraffin-embedded human brain stained with FOXO1 Mouse Monoclonal Antibody (FOXO1/9792). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

FKHR (for forkhead in rhabdomyosarcoma) and FKHL1 are members of the forkhead family of transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHL1 and results in FKHL1 associating with 14-3-3 proteins and being retained in the cytoplasm. Induction of apoptosis or withdrawal of growth factors stimulates dephosphorylation and nuclear translocation of FKHR proteins, leading to FKHR-induced gene-specific transcriptional activation. FKHR, also designated forkhead box protein O1A (FOXO1), is a ubiquitously expressed protein that shuttles between the cytoplasm and nucleus. Genetic mutations in FKHR genes, including the t(2;13) and t(1;3) translocations, are commonly found in alveolar rhabdomyosarcomas. These translocations result in the fusion of the amino terminus of Pax-3 or Pax-7, including the paired box and homeodomain DNA-binding domains, with the carboxyterminus of FKHR, which contains a transcriptional activation domain. The Pax-3/FKHR fusion protein appears to function as an oncogenic transcription factor that enhances the activation of normal Pax-3 target genes.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Immuno Oncology, Oncology, Transcription Factors
