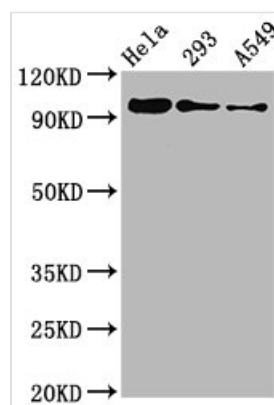




Phospho-FOXO3 (S253) Antibody

Product Code	CSB-RA008836A253phHU
Abbreviation	Forkhead box protein O3
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O43524
Immunogen	A synthesized peptide derived from Human Phospho-FOXO3 (S253)
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Transcriptional activator which triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress. Recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3'. Participates in post-transcriptional regulation of MYC: following phosphorylation by MAPKAPK5, promotes induction of miR-34b and miR-34c expression, 2 post-transcriptional regulators of MYC that bind to the 3'UTR of MYC transcript and prevent its translation.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Forkhead box protein O3, AF6q21 protein, FOXO3
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	FOXO3
Accession NO.	1E1

Image



Western Blot

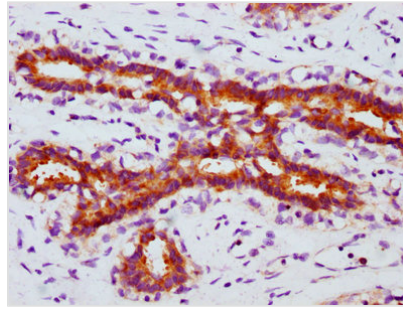
Positive WB detected in HeLa whole cell lysate?293 whole cell lysate?A549 whole cell lysate

All lanes Phospho-FOXO3 antibody at 0.96µg/ml
Secondary

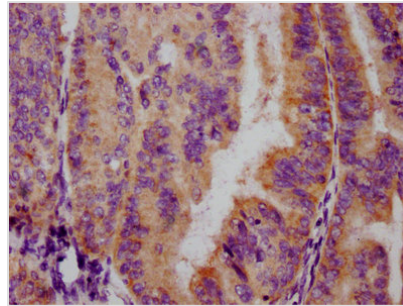
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 97 KDa

Observed band size: 97 KDa



IHC image of CSB-RA008836A253pH_U diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA008836A253pH_U diluted at 1:100 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Description

The synthesized DNA sequence corresponding to the phospho-FOXO3 (S253) monoclonal antibody was cloned into the plasmid and then transfected into the cell line for expression. The product was purified through the affinity-chromatography method and obtained the phospho-FOXO3 (S253) recombinant monoclonal antibody. This FOXO3-pS253 recombinant antibody is a rabbit IgG and has been tested in scientific applications, including ELISA, WB, and IHC. It can be used to detect the human FOXO3 phosphorylated at Ser253 residue.

FOXO3 is a transcription factor that controls a variety of physiological processes such as cell cycle arrest, apoptosis, oxidative stress response, and energy consumption. Various post-translational modifications, such as acetylation, ubiquitination, and phosphorylation, regulate FOXO3. AKT phosphorylates FOXO3 at T32 and S253, forming 14-3-3 binding sites, which modulates FOXO3 transcriptional activity and localization.