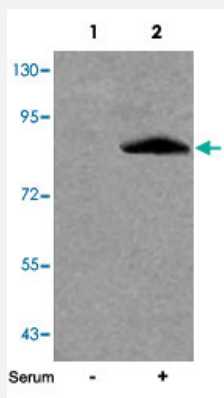


FOXO1 (phospho S256) polyclonal antibody

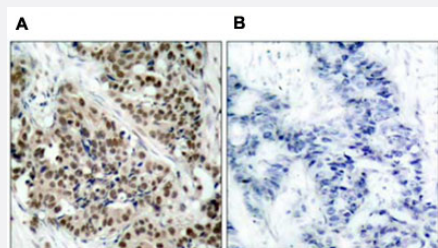
Catalog # PAB10969 Size 100 uL

Applications



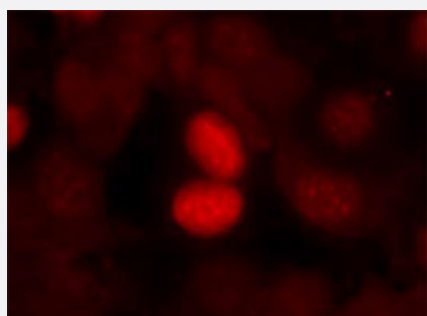
Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells untreated (Lane 1) or treated (Lane 2) with serum using FOXO1 (phospho S256) polyclonal antibody (Cat # PAB10969).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded human breast carcinoma tissue using FOXO1 (phospho S256) polyclonal antibody (Cat # PAB10969) (A) or preincubated with blocking peptide (B).



Immunofluorescence

Immunofluorescence staining of methanol-fixed MCF-7 cells using FOXO1 (phospho S256) polyclonal antibody (Cat # PAB10969).

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic phosphopeptide of FOXO1.

Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S256 of human FOXO1.
Host	Rabbit
Theoretical MW (kDa)	78-82
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Immunoaffinity purification
Concentration	1 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells untreated (Lane 1) or treated (Lane 2) with serum using FOXO1 (phospho S256) polyclonal antibody (Cat # PAB10969).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded human breast carcinoma tissue using FOXO1 (phospho S256) polyclonal antibody (Cat # PAB10969) (A) or preincubated with blocking peptide (B).

- Immunofluorescence

Immunofluorescence staining of methanol-fixed MCF-7 cells using FOXO1 (phospho S256) polyclonal antibody (Cat # PAB10969).

Gene Info — FOXO1

Entrez GeneID

[2308](#)

Protein Accession#	Q12778
Gene Name	FOXO1
Gene Alias	FKH1, FKHR, FOXO1A
Gene Description	forkhead box O1
Omim ID	136533 268220
Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma. [provided by RefSeq]
Other Designations	OTTHUMP00000018301 forkhead box O1A (rhabdomyosarcoma) forkhead homolog in rhabdomyosarcoma forkhead, Drosophila, homolog of, in rhabdomyosarcoma

Publication Reference

- [Atypical PKC, PKC \$\delta\$, activates \$\beta\$ -secretase and increases A \$\beta\$ 1-40/42 and phospho-tau in mouse brain and isolated neuronal cells, and may link hyperinsulinemia and other aPKC activators to development of pathological and memory abnormalities in Alzheimer's disease.](#)

Sajan MP, Hansen BC, Higgs MG, Kahn CR, Braun U, Leitges M, Park CR, Diamond DM, Farese RV.
Neurobiology of Aging 2018 Jan; 61:225.

Application: WB-Ti, Mouse, Mouse brains
- [BMI-related progression of atypical PKC-dependent aberrations in insulin signaling through IRS-1, Akt, FoxO1 and PGC-1 \$\alpha\$ in livers of obese and type 2 diabetic humans.](#)

Sajan MP, Ivey III RA, Farese RV.
Metabolism 2015 Nov; 64(11):1454.

Application: WB-Ce, Human, Hepatocyte
- [Hepatic insulin resistance in ob/ob mice involves increases in ceramide, atypical PKC activity and selective impairment of Akt-dependent FoxO1 phosphorylation.](#)

Sajan MP, Ivey RA, Lee MC, Farese RV.
Journal of Lipid Research 2015 Jan; 56(1):70.

Application: WB, Mouse, Liver, Muscle

- [PKC \$\lambda\$ haplo-insufficiency prevents diabetes by a mechanism involving alterations in hepatic enzymes.](#)

Sajan MP, Ivey RA 3rd, Lee M, Mastorides S, Jurzak MJ, Samuels VT, Shulman GI, Braun U, Leitges M, Farese RV.

Molecular Endocrinology 2014 Jul; 28(7):1097.

Application: WB-Ti, Mouse, Liver

Pathway

- [Insulin signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Calcinosis](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Head and Neck Neoplasms](#)
- [NARP](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)