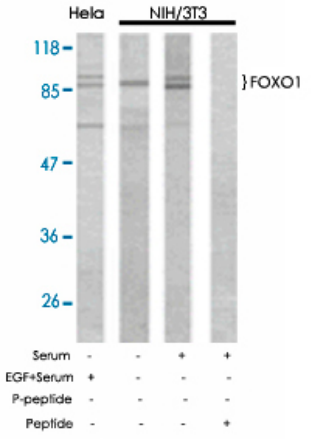
FOXO1 polyclonal antibody

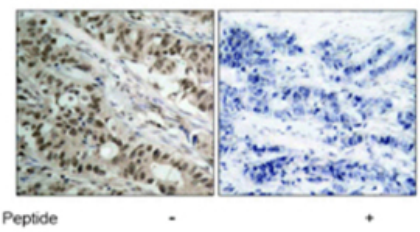
Catalog # PAB5362 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extract from Hela and NIH/3T3 using FOXO1 polyclonal antibody (Cat # PAB5362) .



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FOXO1 polyclonal antibody (Cat # PAB5362) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of FOXO1.
Immunogen	A synthetic peptide corresponding to residues surrounding S256 of human FOXO1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid

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, 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 shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extract from Hela and NIH/3T3 using FOXO1 polyclonal antibody (Cat # PAB5362) .

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

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FOXO1 polyclonal antibody (Cat # PAB5362) .

Gene Info — FOXO1

Entrez GeneID	2308
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 disti nct 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 rhabdom yosarcoma|forkhead, Drosophila, homolog of, in rhabdomyosarcoma

Publication Reference

- Coordinated regulation of hepatic FoxO1, PGC-1α and SREBP-1c facilitates insulin action and resistance.

  Sajan MP, Lee MC, Foufelle F, Sajan J, Cleland C, Farese RV.

  Cellular Signalling 2018 Mar; 43:62.

  Application: WB-Ti, Mouse, Mouse livers

- BMI-related progression of atypical PKC-dependent aberrations in insulin signaling through IRS-1, Akt, FoxO1 and PGC-1α 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

- PKCλ 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

- Nuclear/cytoplasmic shuttling of the transcription factor FoxO1 is regulated by neurotrophic factors.

  Gan L, Zheng W, Chabot JG, Unterman TG, Quirion R.

  Journal of Neurochemistry 2005 Jun; 93(5):1209.

  Application: WB, Rat, PC-12 cells

- Protein kinase CK2 phosphorylates and upregulates Akt/PKB.

  Di Maira G, Salvi M, Arrigoni G, Marin O, Sarno S, Brustolon F, Pinna LA, Ruzzene M.

  Cell Death and Differentiation 2005 Jun; 12(6):668.

- Phosphorylation of p66Shc and forkhead proteins mediates Abeta toxicity.

  Smith WW, Norton DD, Gorospe M, Jiang H, Nemoto S, Holbrook NJ, Finkel T, Kusiak JW.

  The Journal of Cell Biology 2005 Apr; 169(2):331.

  Application: WB, Human, SH-SY5Y cells

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