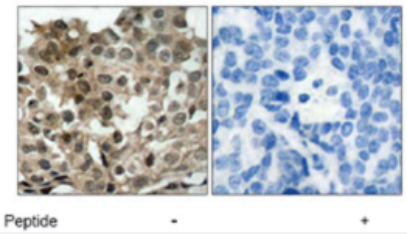
# FOXO3 polyclonal antibody

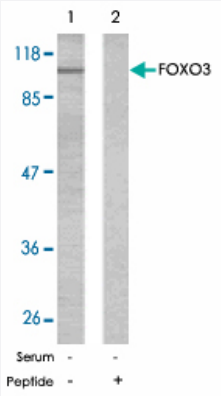
Catalog # PAB5364 Size 100 ug

## Applications




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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FOXO3 polyclonal antibody (Cat # PAB5364) .




### Western Blot (Cell lysate)

Western blot analysis of extract from NIH/3T3 using FOXO3 polyclonal antibody (Cat # PAB5364) .

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of FOXO3. |
| **Immunogen** | A synthetic peptide corresponding to residues surrounding S253 of human FOXO3. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |

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| | |
|---|---|
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1000)<br>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.<br>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

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

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using FOXO3 polyclonal antibody (Cat # PAB5364) .

- Western Blot (Cell lysate)

  Western blot analysis of extract from NIH/3T3 using FOXO3 polyclonal antibody (Cat # PAB5364) .

## Gene Info — FOXO3

| | |
|---|---|
| **Entrez GeneID** | 2309 |
| **Gene Name** | FOXO3 |
| **Gene Alias** | AF6q21, DKFZp781A0677, FKHRL1, FKHRL1P2, FOXO2, FOXO3A, MGC12739, MGC31925 |
| **Gene Description** | forkhead box O3 |
| **Omim ID** | 602681 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene belongs to the forkhead family of transcription factors which are characterized by a disti nct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of g enes necessary for cell death. Translocation of this gene with the MLL gene is associated with se condary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000016944\|forkhead box O3A\|forkhead homolog (rhabdomyosarcoma) like 1\|forkh ead, Drosophila, homolog of, in rhabdomyosarcoma-like 1 |

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## Publication Reference

- FOXO3 Deficiency Leads to Increased Susceptibility to Cigarette Smoke-Induced Inflammation, Airspace Enlargement, and Chronic Obstructive Pulmonary Disease.

  Hwang JW, Rajendrasozhan S, Yao H, Chung S, Sundar IK, Huyck HL, Pryhuber GS, Kinnula VL, Rahman I.

  The Journal of Immunology 2011 Jul; 187(2):987.

  Application: IHC-P, Human, Lung

- 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.

- Direct transcriptional regulation of Bim by FoxO3a mediates STI571-induced apoptosis in Bcr-Abl-expressing cells.

  Essafi A, Fernandez de Mattos S, Hassen YA, Soeiro I, Mufti GJ, Thomas NS, Medema RH, Lam EW.

  Oncogene 2005 Mar; 24(14):2317.

- Protein kinase SGK mediates survival signals by phosphorylating the forkhead transcription factor FKHRL1 (FOXO3a).

  Brunet A, Park J, Tran H, Hu LS, Hemmings BA, Greenberg ME.

  Molecular and Cellular Biology 2001 Feb; 21(3):952.

  Application: IF, KA, WB-Ce, WB-Tr, Human, CCL39, HEK 293, HEK 293T cells, Cerebellar granule neurons

## Pathway

- Chemokine signaling pathway
- Endometrial cancer
- Neurotrophin signaling pathway
- Non-small cell lung cancer

## Disease

- Alzheimer disease

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- Amenorrhea
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Cognition
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Infertility
- Narcolepsy
- Obesity
- Ovarian Failure
- Primary Ovarian Insufficiency
- Tobacco Use Disorder
- Tooth Abnormalities

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