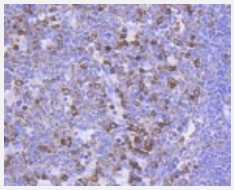
RecomAb™

# FOXO3 (phospho S253) recombinant monoclonal antibody

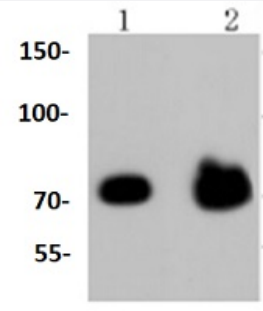
Catalog # RAB02766 Size 100 uL

## Applications



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

Immunohistochemical analysis of paraffin-embedded human tonsil tissue using FOXO3 (phospho S253) recombinant monoclonal antibody (Cat # RAB02766). Counter stained with hematoxylin.




### Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:PC12 whole cell lysate with FOXO3 (phospho S253) recombinant monoclonal antibody (Cat # RAB02766) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against FOXO3. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant FOXO3. |
| **Theoretical MW (kDa)** | 71, 97 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | This antibody detects endogenous levels of FOXO3A protein only when phosphorylated at Ser253. |

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| | |
|---|---|
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunohistochemistry (1:50-1:200)<br>Western Blot (1:1000-1:5000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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

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## Gene Info — FOXO3

| | |
|---|---|
| **Entrez GeneID** | 2309 |
| **Protein Accession#** | O43524 |
| **Gene Name** | FOXO3 |
| **Gene Alias** | AF6q21, DKFZp781A0677, FKHRL1, FKHRL1P2, FOXO2, FOXO3A, MGC12739, MGC31925 |
| **Gene Description** | forkhead box O3 |
| **Omim ID** | 602681 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary 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\|forkhead, Drosophila, homolog of, in rhabdomyosarcoma-like 1 |

## Pathway

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

## Disease

- Alzheimer disease
- Amenorrhea
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Cognition
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Infertility
- Narcolepsy
- Obesity
- Ovarian Failure

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- Primary Ovarian Insufficiency
- Tobacco Use Disorder
- Tooth Abnormalities

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