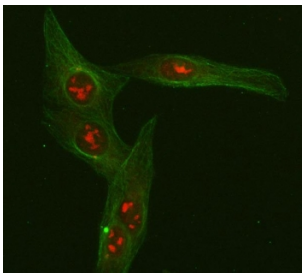
# FOXO3A Antibody (R31609)

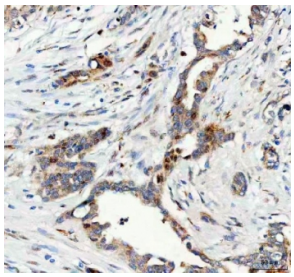
| Catalog No. | Formulation | Size |
|---|---|---|
| R31609 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

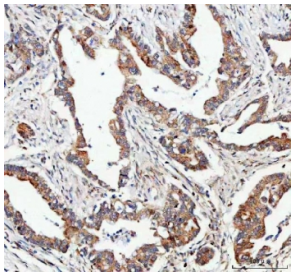
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | O43524 |
| **Localization** | Nuclear, cytoplasmic |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Immunofluorescence: 5ug/ml<br>Flow cytometry: 1-3ug/million cells |
| **Limitations** | This FOXO3A antibody is available for research use only. |



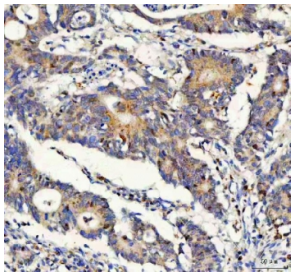
Immunofluorescent staining of FFPE human U-2 OS cells with FOXO3A antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



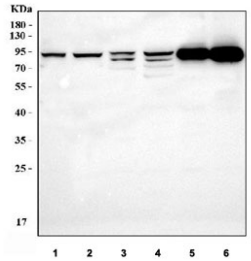
IHC staining of FFPE human pancreatic ductal adenocarcinoma tissue with FOXO3A antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



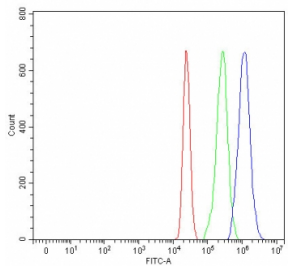
IHC staining of FFPE human pancreatic ductal adenocarcinoma tissue with FOXO3A antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colorectal adenocarcinoma tissue with FOXO3A antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human 293T, 2) human MCF7, 3) human Jurkat, 4) human HeLa, 5) rat lung and 6) rat ovary tissue lysate with FOXO3A antibody. Expected molecular weight: 71-90 kDa depending on glycosylation level.




Flow cytometry testing of human MCF7 cells with FOXO3A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= FOXO3A antibody.

## Description

Forkhead box O3, also known as FKHRL1 or FOXO3A, is a human protein encoded by the FOXO3 gene. FOXO3A belongs to the O subclass of the forkhead family of transcription factors which are characterized by a distinct fork head DNA-binding domain. It is mapped to 6q21. This protein likely functions as a trigger for apoptosis through upregulation of genes necessary for cell death, such as Bim and PUMA, or downregulation of anti-apoptotic proteins such as FLIP. In mammals FOXO3A regulates the resistance of cells to stress by inducing DNA repair and thereby may also affect organismal life span. In addition, it is thought that FOXO3A is also involved in protection from oxidative stress by upregulating antioxidants such as catalase and MnSOD.

Visit our FOXO3A Antibody / Forkhead Transcription Factor Antibody page for additional information about validated antibodies for investigating FOXO3A expression, forkhead transcription factor biology, PI3K/AKT signaling, apoptosis, and oxidative stress responses.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the FOXO3A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 471-673) was used as the immunogen for this FOXO3A antibody.

## Storage

After reconstitution, the FOXO3A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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