

## Anti-FOXO3 Antibody (6R502)

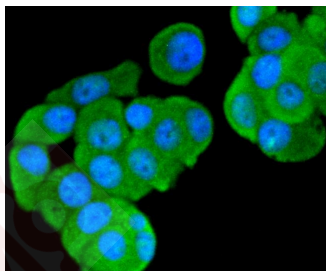
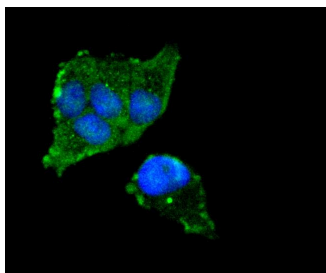
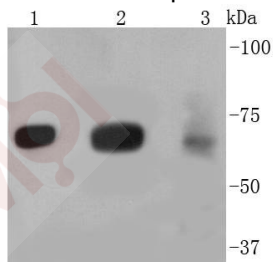
### Product Details

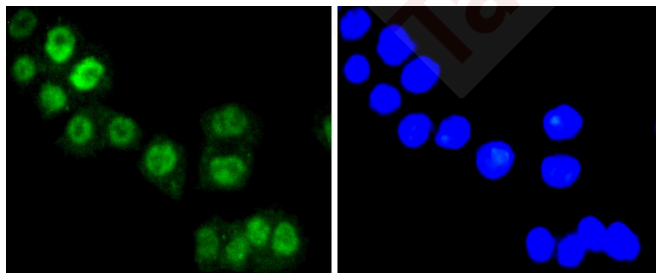
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 71 kDa.
Clone:	6R502
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of FOXO3A on different lysates using anti- FOXO3A antibody at 1/1,000 dilution. Positive control: Lane 1: NIH/3T3, Lane 2: PC-12, Lane 3: MCF-7.
2. ICC staining FOXO3A in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining FOXO3A in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining FOXO3A in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,WB

Recommended WB: 1:1000-5000; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O43524

Synonyms: Forkhead box O3A;MGC31925;AF6q21;FOXO3A;Forkhead homolog (rhabdomyosarcoma) like 1;MGC12739;Forkhead box O3;Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1;FKHR2;FKHRL 1;Forkhead Drosophila homolog of in rhabdomyosarcoma like 1;FKHRL1P2;Forkhead in rhabdomyosarcoma-like 1;FKHRL1;DKFZp781A0677;FOX O3A

### Research Background

FKHRL1 (forkhead in rhabdomyosarcoma-like 1), also known as FOXO3 (forkheadbox O3) or FOXO3A, is a 673 amino acid transcriptional activator that belongs to the FKHR subfamily of forkhead transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHRL1 at Threonine 32 and Serine 253. Phosphorylation by Akt1 negatively regulates FKHRL1 by promoting its export from the nucleus. Phosphorylated FKHRL1 associates with 14-3-3 proteins and this complex is retained in the cytoplasm. Growth factor withdrawal stimulates FKHRL1 dephosphorylation and nuclear translocation, leading to FKHR-induced gene-specific transcriptional activation. Within the nucleus, dephosphorylated FKHRL1 triggers apoptosis by inducing the expression of genes that are critical for cell death.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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