

## Product datasheet for **AP20683PU-M**

### **FOXO3 (221-270) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 221-270 of Human FoxO3A
Specificity:	This antibody detects endogenous levels of FoxO3 protein (aa 221-270).
Formulation:	Phosphate buffered saline (PBS), 50% glycerol, pH~7.2, State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.02% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~82 to 97 kDa
Gene Name:	forkhead box O3
Database Link:	<u><a href="#">Entrez Gene 56484 Mouse</a></u> <u><a href="#">Entrez Gene 294515 Rat</a></u> <u><a href="#">Entrez Gene 2309 Human</a></u> <u><a href="#">O43524</a></u>



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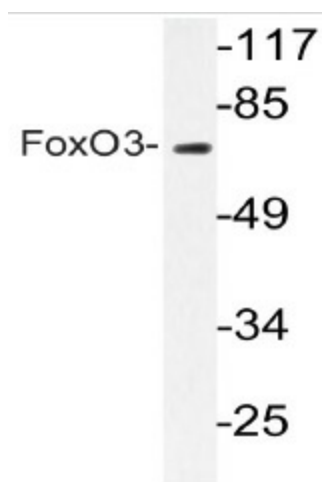
**Background:** FOXO3A belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. Forkhead transcription factors of the FoxO subfamily are emerging as a shared component among pathways regulating diverse cellular functions, such as differentiation, metabolism, proliferation, and survival. Their transcriptional output is controlled via a two-tiered mechanism of phosphorylation and acetylation. FOXO3A is a transcriptional activator which triggers apoptosis in the absence of survival factors.

**Synonyms:** FOXO3A, AF6q21 protein

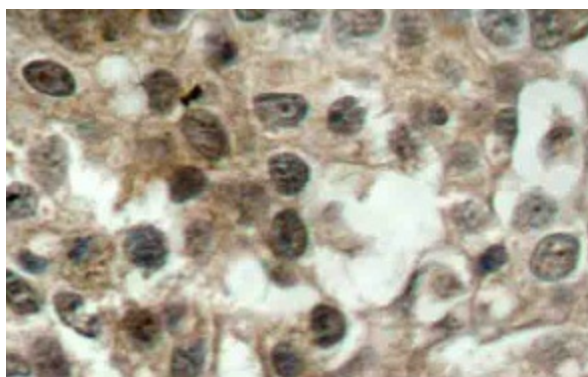
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Chemokine signaling pathway, Endometrial cancer, Neurotrophin signaling pathway, Non-small cell lung cancer

### Product images:



Western blot (WB) analyzes of FoxO3 antibody (Cat.-No.: [AP20683PU-N]) in extracts from COLO205 cells.



Immunohistochemistry (IHC) analyzes of FoxO3 antibody (Cat.-No.: [AP20683PU-N]) in paraffin-embedded human breast carcinoma tissue.