

Product datasheet for **AP20805PU-N**

FOXO3 pSer253 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of FoxO3 protein when phosphorylated at Serine 253
Formulation:	Phosphate buffered saline (PBS), pH~7.2, 0.02% sodium azide, 50% glycerol State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
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:	~97 kDa
Gene Name:	forkhead box O3
Database Link:	Entrez Gene 56484 Mouse Entrez Gene 2309 Human O43524



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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. It recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3'. FOXO3a has been shown to induce cell growth arrest to effect tumor suppression and FOXO3A genotype is strongly associated with human longevity.

Synonyms:

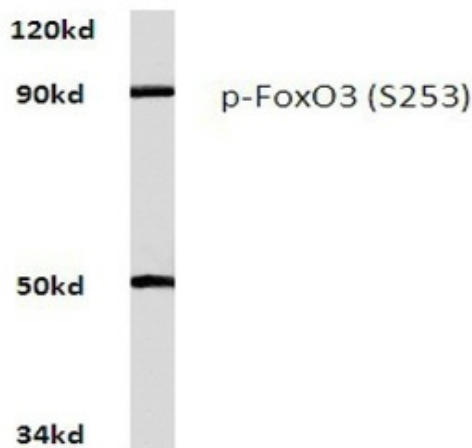
FOXO3A, AF6q21 protein

Protein Families:

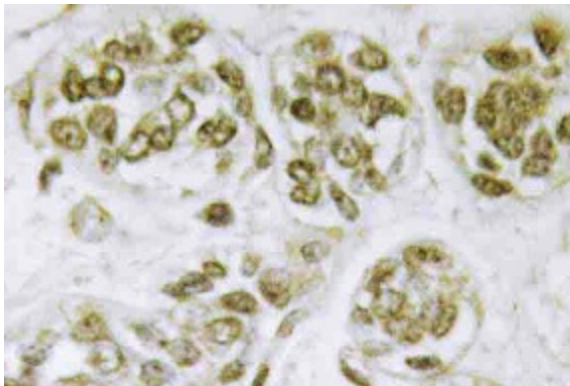
Druggable Genome, Transcription Factors

Protein Pathways:

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

Product images:

Western blot analysis of Phospho-FoxO3 Antibody (Cat.-No AP20805PU-N) (pSer253) in Raw264.7 whole cell lysate at 1/500 dilution.



Immunohistochemistry analysis of Phospho-FoxO3 Antibody (Cat.-No AP20805PU-N) (pSer253) in paraffin-embedded human breast carcinoma tissue.