

Product datasheet for **AP20682PU-M**

FOXO1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200. Immunofluorescence: 1/50 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of FoxO1 protein. (region surrounding Phe313)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
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:	~ 70 to 82 kDa
Gene Name:	forkhead box O1
Database Link:	<u>Entrez Gene 56458 Mouse</u> <u>Entrez Gene 2308 Human</u> <u>Q12778</u>



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Background:

FOXO1A (FKHR or ForkHead in Rhabdomyosarcoma) is a 70 kDa protein which is a member of a subfamily of the forkhead homeotic gene family of transcription factors. Recent studies have shown that this protein can act as either a coactivator or a corepressor of nuclear receptor activity. This action is mediated through the LXXLL motif found in the C terminus of the FOXO1A protein. The specific function of the gene has not yet been determined; however, it may play a role in myogenic growth and differentiation. Chromosomal aberrations involving FOXO1A are a cause of rhabdomyosarcoma 2 (RMS2); also known as alveolar rhabdomyosarcoma.

Synonyms:

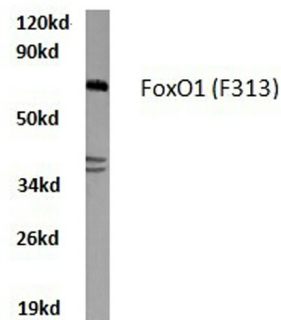
Forkhead Box Protein O1, FOXO1, FKHR

Protein Families:

Druggable Genome, Transcription Factors

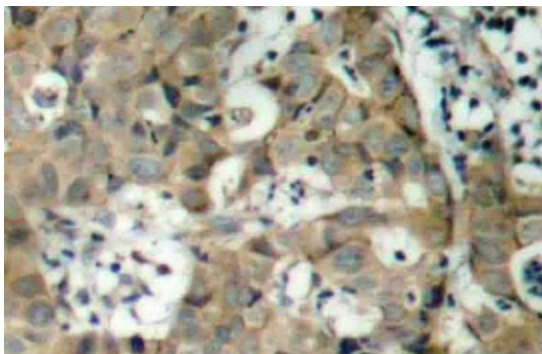
Protein Pathways:

Insulin signaling pathway, Pathways in cancer, Prostate cancer

Product images:


HeLa whole cell lysate
FoxO1 (F313) pAb at 1:500 dilution

Western blot (WB) analyzes of FoxO1 antibody (Cat.-No.: [AP20682PU-N]) in extracts from HELA cells.



Immunohistochemistry (IHC) analyzes of FoxO1 antibody (Cat.-No.: [AP20682PU-N]) in paraffin-embedded human breast carcinoma tissue.