

## Product datasheet for **AP20806PU-N**

### FOXO4 pSer197 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of AFX1 protein only when phosphorylated at Ser197.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% 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:	~ 55, 70 kDa
Gene Name:	forkhead box O4
Database Link:	<a href="#">Entrez Gene 54601 Mouse</a> <a href="#">Entrez Gene 4303 Human</a> <a href="#">P98177</a>



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**Background:**

FKHR (for forkhead in rhabdomyosarcoma), FKHL1, and AFX1 are members of a subfamily of the forkhead family of transcription factors. AFX1, also known as FoxO4, is expressed in a wide variety of tissues and, like other FKHR proteins, AFX1 contains a single forkhead domain and serineproline-rich region, which mediate DNA binding. AFX1-mediated transcriptional activation is regulated by the serine/threonine kinase Akt1, which phosphorylates AFX1 (in humans, this phosphorylation can occur at several sites, including Ser 197) and in turn, sequesters AFX1 in the cytosol, thereby blocking nuclear localization and DNA binding. Genetic mutations in FKHR genes, including the t(2;13) and t(1;3) translocations, are commonly found in alveolar rhabdomyosarcomas. Additionally, the t(x;11) translocation of the AFX1 gene, which involves the fusion of a serine-prolinerich sequence of AFX1 to the carboxyterminus of a truncated MLL, results in acute lymphocytic leukemia.

**Synonyms:**

Forkhead box protein O4

**Protein Families:**

Transcription Factors

**Product images:**

Western blot (WB) analyzes of p-AFX1 antibody (Cat.-No.: AP20806PU-N) in extracts from COLO205 cells.



Immunohistochemistry (IHC) analyzes of p-AFX1 (Cat.-No.: AP20806PU-N) in paraffin-embedded human brain tissue.