

## Anti-FOXO1A Antibody Picoband® FITC Conjugated

Catalog Number: PB9195-FITC

### About FOXO1

Forkhead box protein O1, also known as FKHR or FOXO1A, is a protein that in humans is encoded by the FOXO1 gene. It is mapped to 13q14.11. This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. FOXO1 plays important roles in regulation of gluconeogenesis and glycogenolysis by insulin signaling, and is also central to the decision for a preadipocyte to commit to adipogenesis. This gene is primarily regulated through phosphorylation on multiple residues. Its transcriptional activity is dependent on its phosphorylation state. What's more, FOXO1 may play a role in myogenic growth and differentiation. Translocation of this gene with PAX3 has been associated with alveolar rhabdomyosarcoma.

### Overview

Product Name	Anti-FOXO1A Antibody Picoband® FITC Conjugated
Reactive Species	Human, Rat
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q12778

### Technical Details

Immunogen	E.coli-derived human FOXO1A recombinant protein (Position: N456-G655). Human FOXO1A shares 93% amino acid (aa) sequence identity with both mouse and rat FOXO1A.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 2 Publications Citing This Product

1. PubMed ID: 10.1016/j.ejphar.2020.173136, Prolonged overnutrition with fructose or fat induces metabolic derangements in rats by disrupting the crosstalk between the hypothalamus and periphery: Possible amelioration with fenofibrate

2. PubMed ID: 24862853, Dong P, Mai Y, Zhang Z, Mi L, Wu G, Chu G, Yang G, Sun S. Acta Biochim Biophys Sin (Shanghai). 2014 Jul;46(7):565-71. Doi: 10.1093/Abbs/Gmu043. Epub 2014 May 26. Mir-15A/B Promote Adipogenesis In Porcine Pre-Adipocyte Via Repressing Foxo1.

Visit [bosterbio.com/anti-foxo1a-picoband-trade-antibody-pb9195-boster.html](http://bosterbio.com/anti-foxo1a-picoband-trade-antibody-pb9195-boster.html) to see all 2 publications.

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