

FOXO3 (Phospho-S253) Rabbit monoclonal antibody

Catalog: MB66344

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias. Within the family, three members (FoxO1, FoxO4, and FoxO3a) have sequence similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involving IGFR1, PI3K, and Akt. Active forkhead members act as tumor suppressors by promoting cell cycle arrest and apoptosis. Increased expression of any FoxO member results in the activation of the cell cycle inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF- β -mediated upregulation of p21 Cip1, a process negatively regulated through PI3K. Increased proliferation results when forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser256, and Ser319, which results in nuclear export and inhibition of transcription factor activity. Forkhead transcription factors can also be inhibited by the deacetylase sirtuin (SirT1).

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 82 kDa

Swiss-Prot:

O43524

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

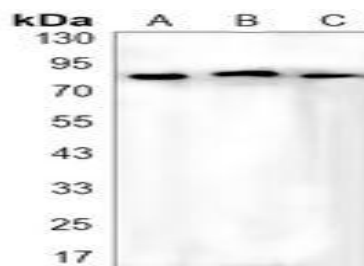
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of FOXO3 (pS253) protein.

DATA:



Western blot analysis of FOXO3 (pS253) expression in NIH3T3 (A), K562 (B), C6 (C) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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