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Datasheet for 600-401-BG6

FOXO3 Antibody

Overview

Description:	Anti-FOXO3 (RABBIT) Antibody - 600-401-BG6
Item No.:	600-401-BG6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	FOXO3 is a ubiquitously expressed 75 kDa protein member of a subfamily of the forkhead homeotic gene family of transcription factors and shuttles between the cytoplasm and nucleus. FOXO transcription factors are key players of cell fate decisions, metabolism, stress resistance, tumor suppression and are regulated by growth factors, oxidative stress or nutrient deprivation. FOXO3 is involved with mTOR in the regulation of autophagy in skeletal muscle, and activates protein degradation in atrophying muscle cells. FOXO3 has also been implicated in several neurodegenerative disorders including aging, neuromuscular disease, systemic lupus erythmatosus, stroke and diabetic complications.
Synonyms:	FOXO3 Antibody, FOXO2, AF6q21, FKHRL1, FOXO3A, FKHRL1P2, Forkhead box protein O3, AF6q21 protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	FOXO3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-FOXO3 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human FOXO3.

Purity/Specificity:	Anti-FOXO3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with FOXO3 from other sources has not been determined.
Relevant Links:	• UniProtKB - O43524 • GeneID - 2309 • NCBI - NP_963853

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-FOXO3 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 72 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
WB:	0.5-1 µg/mL

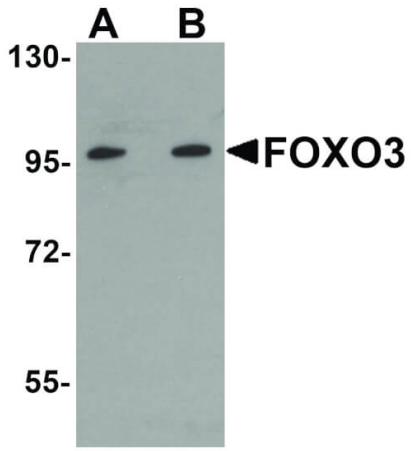
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

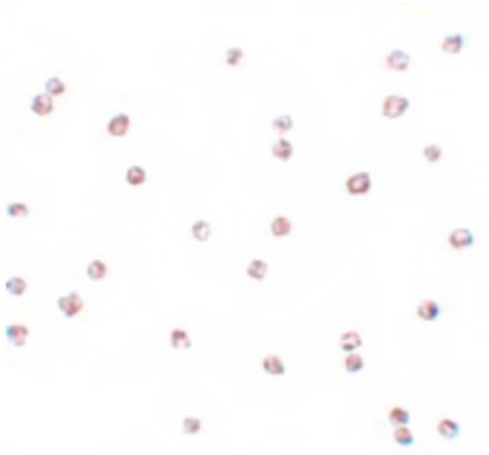
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of FOXO3 antibody. Lane 1: A20 cell lysate with FOXO3 antibody at 0.5 µg/mL. Lane 2: A20 cell lysate with FOXO3 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 72 kDa, 96 kDa for FOXO3. Other band(s): FOXO3 splice variants and isoforms.



Immunohistochemistry
Immunocytochemistry of FOXO3 antibody. Tissue: A20 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: FOXO3 antibody at 4 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: FOXO3 is a Nuclear and cytoplasmic. Staining: FOXO3 as precipitated blue signal with pink nuclear counterstain.

Disclaimer

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