

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse FoxO3 in Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 648716
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FoxO3 Ala373-Gly673 Accession # O43524
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Forkhead box O3 (FoxO3) is a ubiquitously expressed transcriptional regulator that is involved in cellular differentiation, angiogenesis, tumor progression, apoptosis, and the responses to oxidative stress and DNA damage. Phosphorylation of FoxO3 by Akt induces its association with 14-3-3 proteins and its retention in the cytoplasm. In response to the loss of survival factors, dephosphorylation of FoxO3 induces its translocation to the nucleus where it promotes apoptosis. Its level of acetylation is regulated in response to cellular metabolic requirements. Within amino acids 372-673 (C-terminal to the DNA binding domain), human FoxO3 shares 95% aa sequence identity with mouse and rat FoxO3.

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