Human FoxO1/FKHR Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 597554

Catalog Number: FAB5939G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxO1/FKHR in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human FoxA1 (aa 253-472), B1 (aa 191-324), C1 (aa 208-322), D3 (aa 1-140), F1 (aa 129-354), G1 (aa 283-489), J1 (aa 301-421), J3 (aa 375-552), K1 (aa 493-670
Source	Monoclonal Mouse IgG_{2B} Clone # 597554
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human FoxO1/FKHR Ala353-Gly655 Accession # Q12778
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.*

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

FoxO1, also called FKHR (forkhead in rhabdomyosarcoma), is a 655 amino acid (aa), 70 kDa, ubiquitously expressed member of the forkhead box O family of winged helix transcription factors. In neurons, it is activated in response to stress, translocating to the nucleus where it promotes apoptosis and blocks proliferation. In insulin-responsive tissues, nutrient abundance triggers phosphorylation by AKT that blocks nuclear translocation and activity. A 60 kDa form, cleaved at R537, has been found in androgen-treated prostate cancer cells. Over aa 353-655, human FoxO1 shares 93% aa identity with mouse and rat FoxO1.

PRODUCT SPECIFIC NOTICES

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