

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxK1 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse FoxK1 is observed and less than 5% cross-reactivity with recombinant human (rh) FoxK2 and rhFoxJ1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FoxK1 Lys493-Lys670 Accession # P85037
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunohistochemistry	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

FOX K1 (Forkhead box protein K1; also MNF) is a 75 kDa (predicted) nuclear protein that is a Class 1 member of the FOX family of transcription factors. It should not be confused with FOXK2/ILF1 that has also been referred to as FOXK1. It is widely expressed, but has become known as a marker for skeletal muscle satellite cells in the adult. Human FOXK1 is 733 amino acids (aa) in length. It contains one FHA domain that binds phosphopeptides (aa 116-203), plus a forkhead DNA binding region (aa 305-400) and over a dozen Ser/Thr phosphorylation sites. There are multiple potential splice variants. Two utilize an alternative start site at Met118 that may be accompanied by a 28 aa substitution for aa 673-733, while another contains 24 aa substitution for aa 1-187. Over aa 493-670, human FOXK1 shares 90% aa identity with mouse FOXK1.

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