

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human FoxK1 Lys493-Lys670 Accession # P85037
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	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.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunohistochemistry</b>	Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	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.

#### PRODUCT SPECIFIC NOTICES

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