



# FoxK1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-01728
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	FOXK1
<b>Protein Name</b>	Forkhead box protein K1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human FOXK1. AA range:681-730
<b>Specificity</b>	FoxK1 Polyclonal Antibody detects endogenous levels of FoxK1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	FOXK1; MNF; Forkhead box protein K1; Myocyte nuclear factor; MNF
<b>Observed Band</b>	78kD
<b>Cell Pathway</b>	Nucleus . Cytoplasm . Translocation to the nucleus is regulated by phosphorylation: phosphorylation by GSK3 (GSK3A or GSK3B) promotes interaction with 14-3-3 proteins and sequestration in the cytoplasm. Dephosphorylation promotes translocation to the nucleus (By similarity). Accumulates in the nucleus upon viral infection (PubMed:25852164). .
<b>Tissue Specificity</b>	Expressed both developing and adult tissues (PubMed:15289879). In adults, significant expression is seen in tumors of the brain, colon and lymph node (PubMed:15289879).
<b>Function</b>	function:Transcriptional regulator that binds to the upstream enhancer region (CCAC box) of myoglobin gene. Has a role in myogenic differentiation and in remodeling processes of adult muscles that occur in response to physiological stimuli.,PTM:Phosphorylated.,similarity:Contains 1 FHA domain.,similarity:Contains 1 fork-head DNA-binding domain.,subunit:Interacts with SIN3B to form a complex which represses transcription.,tissue specificity:Expressed both developing and adult tissues. In adults, significant expression is seen in tumors of the brain, colon and lymph node.,
<b>Background</b>	function:Transcriptional regulator that binds to the upstream enhancer region (CCAC box) of myoglobin gene. Has a role in myogenic differentiation and in



remodeling processes of adult muscles that occur in response to physiological stimuli.,PTM:Phosphorylated.,similarity:Contains 1 FHA domain.,similarity:Contains 1 fork-head DNA-binding domain.,subunit:Interacts with SIN3B to form a complex which represses transcription.,tissue specificity:Expressed both developing and adult tissues. In adults, significant expression is seen in tumors of the brain, colon and lymph node.,

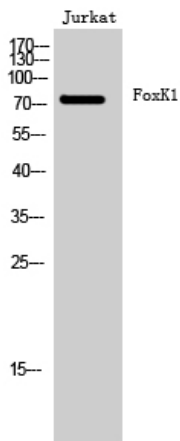
#### matters needing attention

Avoid repeated freezing and thawing!

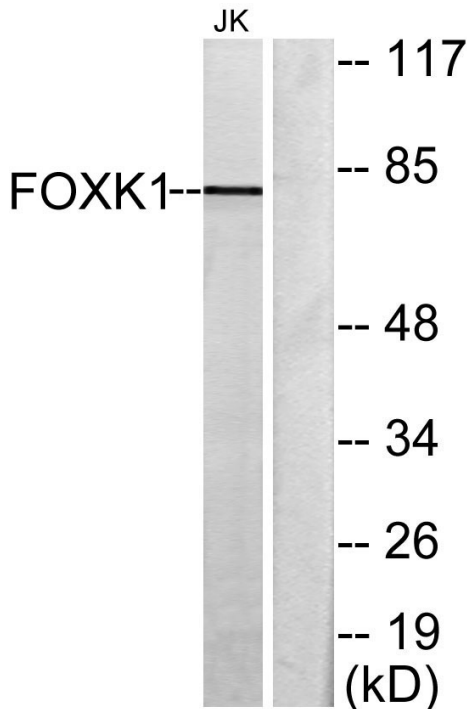
#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

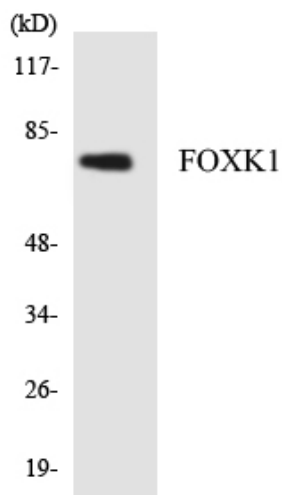
### Products Images



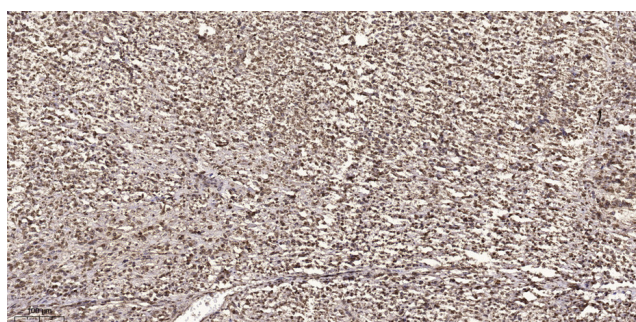
Western Blot analysis of Jurkat cells using FoxK1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Western blot analysis of lysates from Jurkat cells, using FOXK1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using FOXK1 antibody.



Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1, primary Antibody was diluted at 1:200 (4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98° C, 20 min). 3, Secondary antibody was diluted at 1:200.