

Rabbit FOXK1/MNF Polyclonal Antibody | anti-FOXK1 antibody

Anti-FOXK1/MNF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19209	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

FOXK1/MNF; Polyclonal Antibody; Anti-FOXK1/MNF Antibody; Forkhead box protein F1; Forkhead-related activator 1; FREAC-1; Forkhead-related protein FKHL5; Forkhead-related transcription factor 1; FOXF1; FKHL5; FREAC1; anti-FOXK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	733
Applicable Applications for anti-FOXK1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.1-0.25ug/ml (Human, Mouse, Rat) IHC-P (Embedded Section): 0.5-1ug/ml (Human, Mouse, Rat) ICC: 2ug/ml (Human) IF: 2ug/ml (Human) FC/FACS: 1-3ug/1x106 cells (Human) Direct ELISA: 0.1-0.5ug/ml (Human) Tested Species: In-house tested species with positive results.
Immunogen	E Coli-derived human FOXK1/MNF recombinant protein (Position: Q175-E671).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

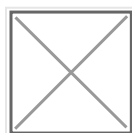
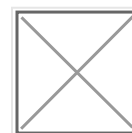
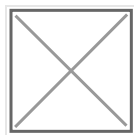
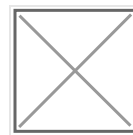

WB (Western Blot)

Figure 1. Western blot analysis of FOXK1 using anti-FOXK1 antibody.

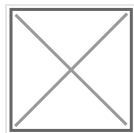

IHC (Immunohistochemistry)



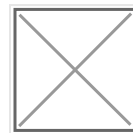
IHC (Immunohistochemistry)



IF (Immunofluorescence)



IF (Immunofluorescence)



FCM (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-FO XK1 antibody	<p>Description: Rabbit IgG polyclonal antibody for FOXK1/MNF detection. Tested with WB, IHC-P, ICC/IF, FCM, Direct ELISA in Human; Mouse; Rat.</p> <p>Background: Forkhead box protein K1 is a transcription factor of the forkhead box family that in humans is encoded by the FOXK1 gene. It is mapped to 7p22.1. FOXK1 is one of the transcription factors managing the passage from the normal cellular respiration (complete glucose oxidation) to generating ATP and intermediaries for many other biochemical pathways. FOXK1 and its closely relate sibling FOXK2 induce aerobic glycolysis by upregulating the enzymatic machinery required for this (for example, hexokinase-2, phosphofructokinase, pyruvate kinase, and lactate dehydrogenase), while at the same time suppressing further oxidation of pyruvate in the mitochondria by increasing the activity of pyruvate dehydrogenase kinases 1 and 4.</p>
References	<ol style="list-style-type: none">1. awke, T. J., Jiang, N., Garry, D. J. Absence of p21(CIP) rescues myogenic progenitor cell proliferative and regenerative capacity in Foxk1 null mice. J. Biol. Chem. 278: 4015-4020, 2003.2. Huang, J. T.-J., Lee, V. Identification and characterization of a novel human FOXK1 gene in silico. Int. J. Oncol. 25: 751-757, 2004.3. Katoh, M., Katoh, M. Identification and characterization of human FOXK1 gene in silico. Int. J. Molec. Med. 14: 127-132, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	82546824
NCBI GeneID	221937
NCBI Accession #	NP_001032242.1
NCBI GenBank Nucleotide #	NP_001032242.1
UniProt Accession #	P85037
NCBI Official Full Name	forkhead box protein K1
NCBI Official Synonym Full Names	forkhead box K1
NCBI Official Symbol	FOXK1
NCBI Official Synonym Symbols	FOXK1L
NCBI Protein Information	forkhead box protein K1
UniProt Protein Name	Forkhead box protein K1
UniProt Gene Name	FOXK1
UniProt Synonym Gene Names	MNF; MNF
UniProt Entry Name	FOXK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

