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Anti-FOXO1A Rabbit mAb [40G62]

Catalog No.: A52121

Basic Information

Catalog No. (Cat.No.)	A52121
Host species	Rabbit
Reactivity	Human,Mouse
Applications	WB,IHC,IF,ELISA
Synonyms	FKHR,FOXO1A,forkhead family transcription factor

Product Information

Target	FOXO1A
Molecular Weight(Calculated)	75 kDa
Molecular Weight(Observed)	75 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	40G62
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:400-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Fork-head box O1
Gene Name	*FOXO1*
Domain	NA
Background	FOXO1A (Forkhead Box Protein O1A) is a core member of the forkhead box transcription factor family, widely distributed in human liver, muscle, pancreas and tumor cells. It primarily participates in the regulation of cell cycle, glucose and lipid metabolism, oxidative stress response and cell apoptosis. By binding to the promoters of downstream target genes, FOXO1A modulates cell proliferation, differentiation, senescence and metabolic homeostasis to sustain normal physiological functions. Abnormal expression or functional inactivation of FOXO1A leads to cell cycle disorder, metabolic imbalance and accumulated oxidative damage, further inducing liver cancer, diabetes, muscular atrophy and various malignant tumors. As a critical regulatory target for tumors and metabolic diseases, FOXO1A can be specifically targeted by anti-FOXO1A rabbit monoclonal antibodies to regulate its transcriptional activity, correct abnormal cell metabolism and proliferation, and inhibit malignant growth of tumor cells, possessing important research and clinical application value.