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Anti-BRG1 Rabbit mAb [84B43]

Catalog No.: A52021

Basic Information

Catalog No. (Cat.No.)	A52021
Host species	Rabbit
Reactivity	Human,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	BRG1,hBRG1,STH1

Product Information

Target	BRG1
Molecular Weight(Calculated)	185 kDa
Molecular Weight(Observed)	220 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	84B43
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	1:2000-1:10000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily a, member 4
Gene Name	*SMARCA4*
Domain	NA
Background	BRG1 (BRM-associated gene 1) is the core catalytic subunit of the SWI/SNF chromatin remodeling complex, encoded by the SMARCA4 gene and belonging to the ATP-dependent chromatin remodeling enzyme family. By hydrolyzing ATP to provide energy, BRG1 regulates chromatin structural remodeling and nucleosome assembly and disassembly, and extensively participates in core biological processes including gene transcription activation and repression, cell cycle control, cell differentiation, DNA damage repair and tumor suppression. As a critical tumor suppressor, BRG1 loss, mutation or functional inactivation causes chromatin dysregulation and aberrant gene expression, driving malignant cell transformation. Its dysfunction is closely correlated with the occurrence, invasion, metastasis and poor prognosis of various tumors such as lung cancer, breast cancer and liver cancer.