Data Sheet (Cat.No.TMAB-12950)

TargetMol

Anti-SMARCA2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 230 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-SMARCA2/BRM Polyclonal Antibody, Unconjugated (TMAB-12950) 1: 200, overnight at 4℃, followed by conjugation to the secondary antibody and DAB staining
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human SMARCA2/BRM
Antigen Species:	Human
Gene ID:	6595
Uniprot ID:	P51531

Research Background

A transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. SMARCA2 / BRM belongs to the SNF2/RAD54 helicase family, is a homologue of the Saccharomyces cerevisiae SWI2/SNF2 and Drosophila brahma proteins. It contains a methyl lysine containing bromo domain and an HSA domain. The yeast protein SNF2, also known as SWI2, is involved in transcriptional activation of numerous genes. It contains a domain that is highly conserved among several known helicases and is required for transcriptional activity. SNF2/SWI2 is highly homologous to the Drosophila protein 'brahma' (brm). Although the 2 proteins show nuclear localization during interphase, they are excluded from the condensed chromosomes during mitosis. They found that the level of BRM, but not BRG1, was strongly reduced during mitosis. Phosphorylation of hbrm and BRG1 did not disrupt their association with SNF5 but correlated with a decreased affinity for the nuclear structure in early M phase.

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