Datasheet for ABIN6972735

anti-SMARCA4 antibody (AA 213-295)

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	SMARCA4
Binding Specificity:	AA 213-295
Reactivity:	Human, Mouse, Monkey
Host:	Rat
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	This antibody was raised against a recombinant protein corresponding to amino acids 213-295 of human SMARCA4.
Clone:	5B7
Isotype:	IgG2a
Characteristics:	SMARCA4 (SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4) is the central catalytic ATPase subunit of numerous chromatin-remodeling complexes, including SWI/SNF. These complexes are able to use energy from ATP hydrolysis to physically disrupt chromatin architecture of target promoters and facilitate the binding of transcription factors to nucleosomal DNA. SMARCA4 is a co-regulator of transcription and has been implicated in the activation and repression of gene expression through the modulation of chromatin in various tissues and physiological conditions. This protein plays a major role in many cellular processes such as DNA replication, repair and recombination. Mammalian SMARCA4 is usually associated with approximately 10-12 BAF

Product Details

	subunits or other proteins involved in regulation of gene expression. SMARCA4 is part of the stem cell-specific BAF complex, esBAF, and is involved in regulating stem cell pluripotency. SMARCA4 antibody (mAb) (Clone 5B7) was raised in a Rat host. It has been validated for use in Immunocytochemistry, Immunofluorescence and Western blot, it has been shown to react with Human, Monkey and Mouse samples.
Purification:	Protein G Chromatography

Target Details

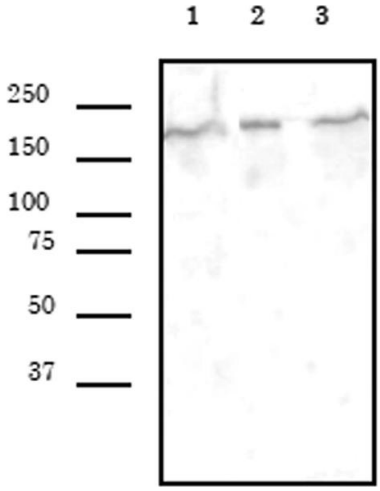
Target:	SMARCA4
Alternative Name:	SMARCA4 (SMARCA4 Products)
Molecular Weight:	180 kDa
NCBI Accession:	NP_001122321
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Stem Cell Maintenance

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

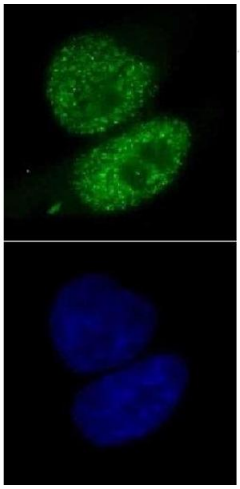
Handling

Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. SMARCA4 antibody (mAb) (Clone 5B7) tested by Western blot. Whole cell extracts were probed with SMARCA4 antibody (mAb). Lane 1: L929 cells. Lane 2: HeLa cells. Lane 3: Cos cells



Immunofluorescence

Image 2. SMARCA4 antibody (mAb) (Clone 5B7) tested by immunofluorescence. Top: HeLa cells stained with SMARCA4 antibody (mAb). Bottom: Hoechst staining.