

**SMARCC1/BAF155 Antibody**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	155	Rabbit	#Q92922	6599

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

SMARCC1/BAF155 Antibody recognizes endogenous levels of total SMARCC1/BAF155 protein.

**Species predicted to react based on 100% sequence homology**

Dog

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala202 of human SMARCC1/BAF155 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

ATP-dependent chromatin remodeling complexes play an essential role in the regulation of nuclear processes such as transcription and DNA replication and repair (1,2). The SWI/SNF chromatin remodeling complex consists of more than 10 subunits and contains a single molecule of either BRM or BRG1 as the ATPase catalytic subunit. The activity of the ATPase subunit disrupts histone-DNA contacts and changes the accessibility of crucial regulatory elements to the chromatin. The additional core and accessory subunits play a scaffolding role to maintain stability and provide surfaces for interaction with various transcription factors and chromatin (2-5). The interactions between SWI/SNF subunits and transcription factors, such as nuclear receptors, p53, Rb, BRCA1, and MyoD, facilitate recruitment of the complex to target genes for regulation of gene activation, cell growth, cell cycle, and differentiation processes (1,6-9).

SMARCC1/BAF155 is one of the core subunits of the SWI/SNF complex, which is necessary for efficient nucleosome remodeling by BRG1 *in vitro* (10). SMARCC1 is an essential part of the mouse embryonic stem cell specific SWI/SNF complex (esBAF), which is necessary for early embryogenesis and proper brain and visceral endoderm development (11-13).

**Background References**

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11. Han, D. et al. (2008) *Dev Biol* 315, 136-46.
12. Kim, J.K. et al. (2001) *Mol Cell Biol* 21, 7787-95.
13. Schaniel, C. et al. (2009) *Stem Cells* 27, 2979-91.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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