

SMARCE1 Monoclonal antibody

Catalog Number: 66182-1-Ig

Basic Information

Catalog Number: 66182-1-Ig	GenBank Accession Number: BC007082	Purification Method: Protein G purification
Size: 150ul, Concentration: 1800 ug/ml by Nanodrop and 1520 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6605	CloneNo.: 1F3D6
Source: Mouse	UNIPROT ID: Q969G3	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	
Immunogen Catalog Number: AG1161	Calculated MW: 47 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB: Jurkat cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC: human breast cancer tissue,
	IF/ICC: HEK-293 cells,

Background Information

Via antagonizing chromatin-mediated transcriptional repression, the SWI/SNF complex in *S. cerevisiae* and *Drosophila* is thought to facilitate transcriptional activation of specific genes. The BRG1/brm-associated factors, or SMARCE1, complex in mammals is functionally related to SWI/SNF and consists of 9 to 12 subunits, some of which are homologous to SWI/SNF subunits. It contains a DNA-binding HMG domain and performs multiple biological functions, including DNA-, protein- and chromatin-binding, transcription coactivating activity, chromatin modification, DNA-dependent negative regulation of transcription, regulation of transcription of the RNA polymerase II promoter. In addition, SMARCE1, as an ER (estrogen receptor) subtype-selective modulator, regulates ER mediated transcription in a ligand-dependent manner and also directly binds to AR (androgen receptor) to alter its activity. The calculated molecular weight of SMARCE1 is 47 kDa, but modified SMARCE1 is about 55 kDa.

Storage

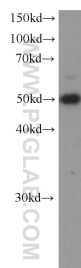
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

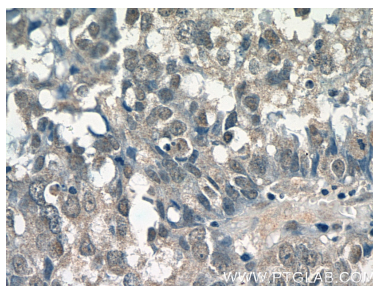
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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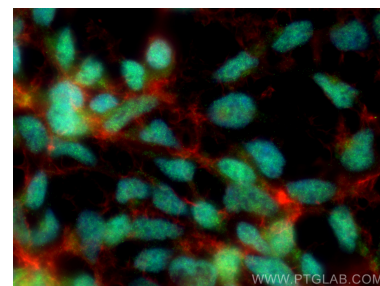
Selected Validation Data



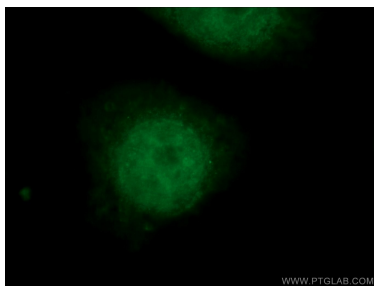
Jurkat cells were subjected to SDS PAGE followed by western blot with 66182-1-Ig (SMARCE1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66182-1-Ig (SMARCE1 Antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using SMARCE1 antibody (66182-1-Ig, Clone: 1F3D6) at dilution of 1:400 and Multi-rAb CoraLite Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red).



Immunofluorescent analysis of HEK-293 cells using 66182-1-Ig (SMARCE1 antibody) at dilution of 1:50 and FITC-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).