

ARG44532 anti-SMARCAD1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SMARCAD1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SMARCAD1
Species	Human
Immunogen	Human SMARCAD1 recombinant protein.
Conjugation	Un-conjugated
Alternate Names	SMARCAD1; SWI/SNF-Related, Matrix-Associated Actin-Dependent Regulator Of Chromatin, Subfamily A, Containing DEAD/H Box 1; KIAA1122; ETL1; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily A Containing DEAD/H Box 1; ATP-Dependent Helicase 1; DKFZP762K2015; Sclerolytosis; EC 3.6.4.12; EC 3.6.1; ADERM BASNS; HHEL1; HEL1; HRZ; TYS

Application Instructions

Application table	Application	Dilution
	FACS	1-3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

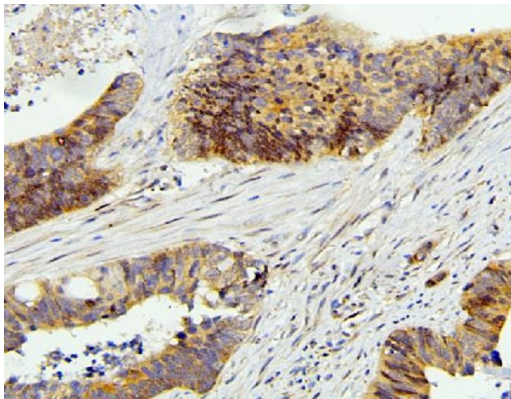
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

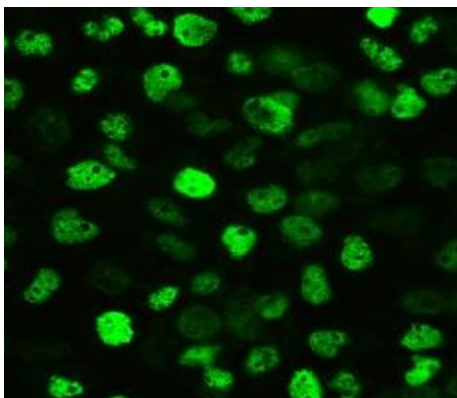
Gene Symbol	SMARCAD1
Gene Full Name	SWI/SNF-Related, Matrix-Associated Actin-Dependent Regulator Of Chromatin, Subfamily A, Containing DEAD/H Box 1
Background	This gene encodes a member of the SNF subfamily of helicase proteins. The encoded protein plays a critical role in the restoration of heterochromatin organization and propagation of epigenetic patterns following DNA replication by mediating histone H3/H4 deacetylation. Mutations in this gene are associated with adermatoglyphia. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Function	DNA helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity and is both required for DNA repair and heterochromatin organization. Promotes DNA end resection of double-strand breaks (DSBs) following DNA damage: probably acts by weakening histone DNA interactions in nucleosomes flanking DSBs. Required for the restoration of heterochromatin organization after replication. Acts at replication sites to facilitate the maintenance of heterochromatin by directing H3 and H4 histones deacetylation, H3 'Lys-9' trimethylation (H3K9me3) and restoration of silencing.
Calculated Mw	117 kDa
Cellular Localization	Chromosome, Nucleus

Images



ARG44532 anti-SMARCAD1 antibody IHC-P image

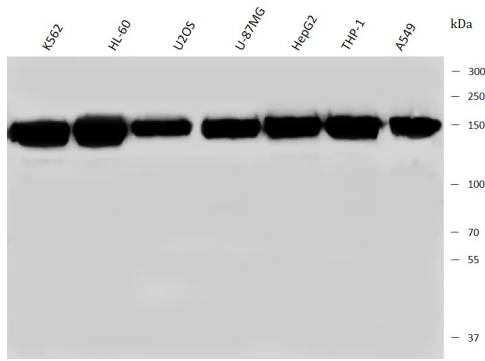
Immunohistochemistry: Human colon cancer stained with ARG44532 anti-SMARCAD1 antibody at 2 µg/ml dilution.



ARG44532 anti-SMARCAD1 antibody ICC/IF image

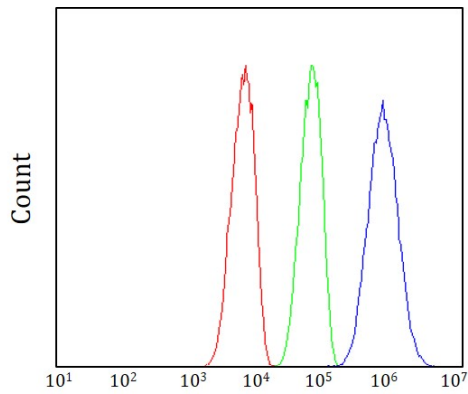
Immunofluorescence: A431 stained with ARG44532 anti-SMARCAD1 antibody at 5 µg/ml dilution.

ARG44532 anti-SMARCAD1 antibody WB image



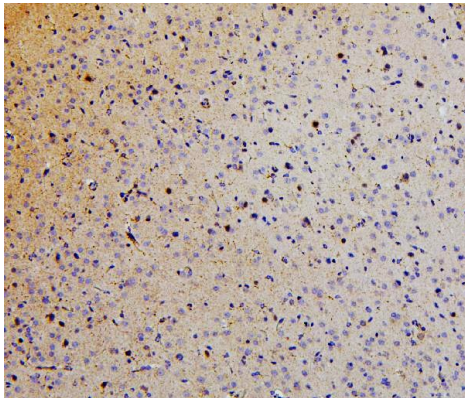
Western blot: K562, HL-60, U2OS, U-87MG, HepG2, THP-1 and A549 stained with ARG44532 anti-SMARCAD1 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.

ARG44532 anti-SMARCAD1 antibody FACS image



Flow Cytometry: SiHa stained with ARG44532 anti-SMARCAD1 antibody at 1 $\mu\text{g}/10^6$ cells dilution.

ARG44532 anti-SMARCAD1 antibody IHC-P image

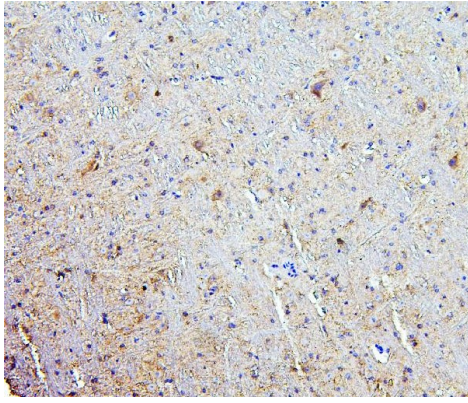


Immunohistochemistry: Rat brain stained with ARG44532 anti-SMARCAD1 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.

ARG44532 anti-SMARCAD1 antibody WB image

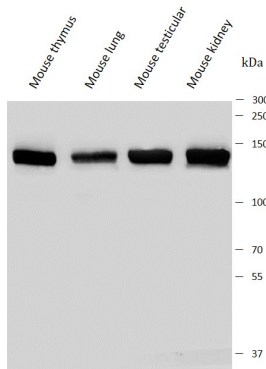


Western blot: Rat testicular stained with ARG44532 anti-SMARCAD1 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



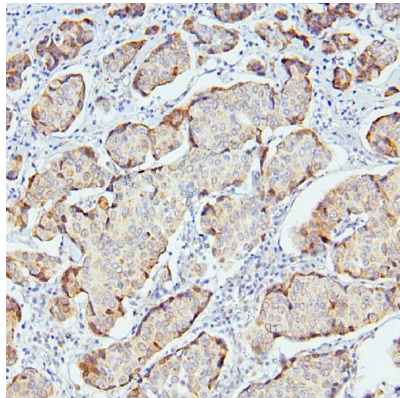
ARG44532 anti-SMARCAD1 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG44532 anti-SMARCAD1 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.



ARG44532 anti-SMARCAD1 antibody WB image

Western blot: Mouse thymus, Mouse lung, Mouse testicular, Mouse kidney stained with ARG44532 anti-SMARCAD1 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



ARG44532 anti-SMARCAD1 antibody IHC-P image

Immunohistochemistry: Human mammary cancer stained with ARG44532 anti-SMARCAD1 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.