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Goat Anti-SMARCA3 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2006a

Specification

Goat Anti-SMARCA3 Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q14527
Other Accession	NP_620636, 6596, 20585 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**113929**

Goat Anti-SMARCA3 Antibody - Additional Information

Gene ID 6596

Other Names
Helicase-like transcription factor, 3.6.4.-, 6.3.2.-, DNA-binding protein/plasminogen activator inhibitor 1 regulator, HIP116, RING finger protein 80, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 3, Sucrose nonfermenting protein 2-like 3, HLTF, HIP116A, RNF80, SMARCA3, SNF2L3, ZBU1

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-SMARCA3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SMARCA3 Antibody - Protein Information

Name HLTF

Synonyms HIP116A, RNF80, SMARCA3, SNF2L3, ZBU1

Function
Has both helicase and E3 ubiquitin ligase activities. Possesses intrinsic ATP-dependent

nucleosome-remodeling activity; This activity may be required for transcriptional activation or repression of specific target promoters (By similarity). These may include the SERPINE1 and HIV-1 promoters and the SV40 enhancer, to which this protein can bind directly. Plays a role in error-free postreplication repair (PRR) of damaged DNA and maintains genomic stability through acting as a ubiquitin ligase for 'Lys-63'-linked polyubiquitination of chromatin-bound PCNA.

Cellular Location
Cytoplasm. Nucleus. Nucleus, nucleolus Nucleus, nucleoplasm. Note=Nuclear localization is stimulated by progesterone.

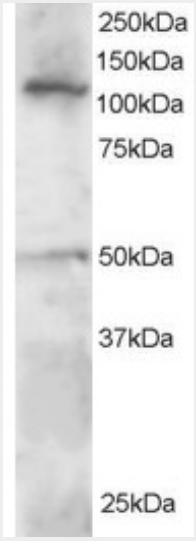
Tissue Location
Expressed in brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle.

Goat Anti-SMARCA3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

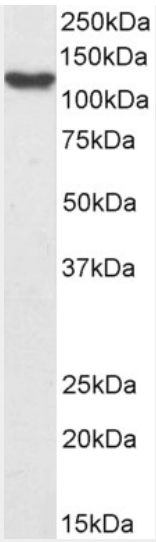
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-SMARCA3 Antibody - Images

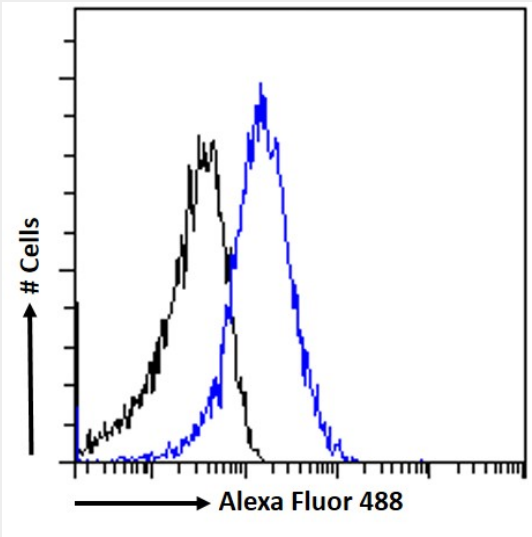


AF2006a staining (0.5 µg/ml) of Jurkat lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

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EB05441 staining (0.5µg/ml) of HeLa lysate (RIPA buffer, 30µg total protein per lane). Detected by chemiluminescence.



EB05441 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

Goat Anti-SMARCA3 Antibody - Background

This gene encodes a member of the SWI/SNF family. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein contains a RING finger DNA binding motif. Two transcript variants encoding the same protein have been found for this gene. However, use of an alternative translation start site produces an isoform that is truncated at the N-terminus compared to the full-length protein.

Goat Anti-SMARCA3 Antibody - References

CHFR functions as a ubiquitin ligase for HLTF to regulate its stability and functions. Kim JM, et al. Biochem Biophys Res Commun, 2010 May 14. PMID 20388495.
Role of double-stranded DNA translocase activity of human HLTF in replication of damaged DNA.

Blasty□k A, et al. Mol Cell Biol, 2010 Feb. PMID 19948885.
Biochemical characterisation of the SWI/SNF family member HLTF. MacKay C, et al. Biochem Biophys Res Commun, 2009 Dec 11. PMID 19723507.
Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.
The helicase-like transcription factor is a strong predictor of recurrence in hypopharyngeal but not in laryngeal squamous cell carcinomas. Capouillez A, et al. Histopathology, 2009 Jul. PMID 19614770.