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#65747

ARID1B/BAF250B (E1U7D) Rabbit
mAbSupport: +1-978-867-2388 (U.S.)
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orders@cellsignal.comEntrez-Gene ID #57492
UniProt ID #Q8NFD5

rev. 03/01/19

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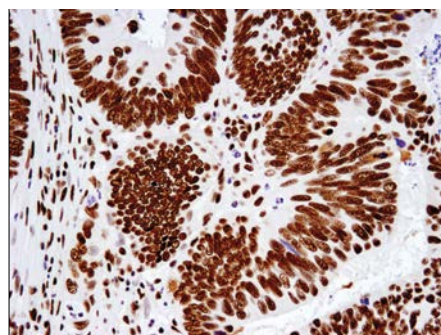
Applications W, IP, IHC-P Endogenous	Species Cross-Reactivity* H, M	Molecular Wt. 250, 280 kDa	Isotype Rabbit IgG**
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Background: ATP-dependent chromatin remodeling complexes play an essential role in the regulation of nuclear processes such as transcription 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).

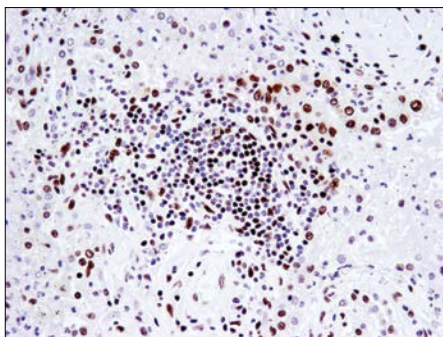
ARID1B (A-T rich interacting domain 1B), also known as BAF250B, is a DNA-binding member of the SWI/SNF complex. It has 60% homology with ARID1A/BAF250A, and the proteins are mutually exclusive members of the complex, akin to Brg1 and BRM (10). ARID1B plays a role in synapse formation and dendritic arborization in neuronal development, and haploinsufficiency of ARID1B has been reported in intellectual disability (11-13). Mutations in ARID1B have also been shown in Coffin-Siris syndrome (14). ARID1B/BAF250B is a critical vulnerability in ARID1A/BAF250A mutant cancers, and could be explored as a potential therapeutic target (15).

Specificity/Sensitivity: ARID1B/BAF250B (E1U7D) Rabbit mAb recognizes endogenous levels of total ARID1B/BAF250B protein. This antibody does not cross-react with ARID1A/BAF250A protein.

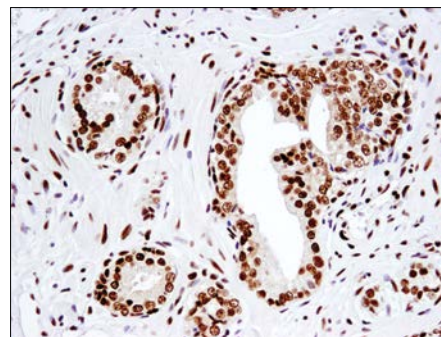
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1320 of human ARID1B/BAF250B protein.



Immunohistochemical analysis of paraffin-embedded human carcinoma using ARID1B/BAF250B (E1U7D) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human non-small cell lung carcinoma using ARID1B/BAF250B (E1U7D) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using ARID1B/BAF250B (E1U7D) Rabbit mAb.

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

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:500
<i>Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.</i>	
Unmasking buffer: SignalStain® Citrate Unmasking Solution (10X) #14746	
Antibody diluent: SignalStain® Antibody Diluent #8112	
Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114	

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

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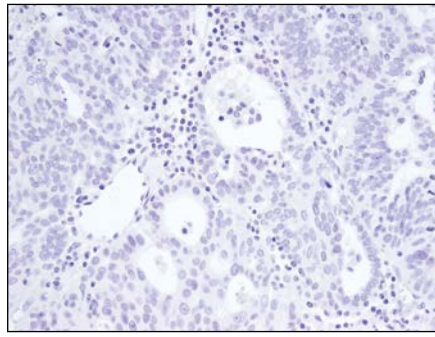
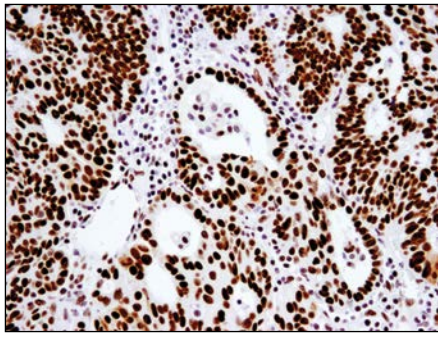
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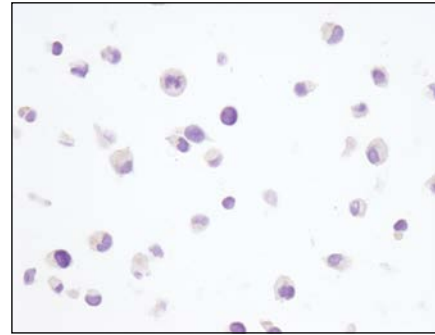
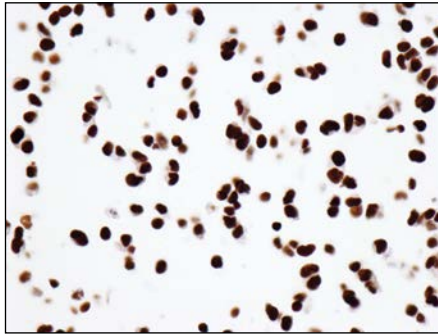
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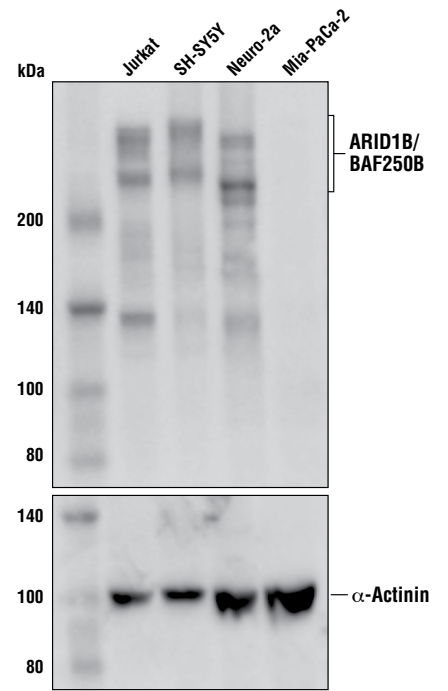
Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Immunohistochemical analysis of paraffin-embedded human endometrioid adenocarcinoma using ARID1B/BAF250B (E1U7D) Rabbit mAb in the presence of control peptide (left) or antigen-specific peptide (right).



Immunohistochemical analysis of paraffin-embedded SH-SY5Y cell pellet (left, positive) or MIA PaCa-2 cell pellet (right, negative) using ARID1B/BAF250B (E1U7D) Rabbit mAb.



Western blot analysis of extracts from various cell lines using ARID1B/BAF250B (E1U7D) Rabbit mAb (upper) and α -Actinin (D6F6) Rabbit mAb #6487 (lower). MIA PaCa-2 cells do not express ARID1B/BAF250B protein.

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