

**Anti-BAF250B Antibody**  
**Rabbit polyclonal antibody to BAF250B**  
**Catalog # AP60111**

### Specification

#### Anti-BAF250B Antibody - Product Information

Application	WB, IF/IC, IHC
Primary Accession	<a href="#">Q8NFD5</a>
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	243943

#### Anti-BAF250B Antibody - Additional Information

##### Gene ID 57492

##### Other Names

BAF250B; DAN15; KIAA1235; OSA2; AT-rich interactive domain-containing protein 1B; ARID domain-containing protein 1B; BRG1-associated factor 250b; BAF250B; BRG1-binding protein hELD/OSA1; Osa homolog 2; hOsa2; p250R

##### Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BAF250B. The exact sequence is proprietary.

##### Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)  
IF/IC~~N/A  
IHC~~1:100~500

##### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

##### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-BAF250B Antibody - Protein Information

##### Name ARID1B ([HGNC:18040](#))

##### Function

Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific

chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron- specific complexes (nBAF). The npBAF complex is essential for the self- renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity). Binds DNA non- specifically (PubMed:<a href="http://www.uniprot.org/citations/14982958" target="\_blank">14982958</a>, PubMed:<a href="http://www.uniprot.org/citations/15170388" target="\_blank">15170388</a>).

#### Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000269|PubMed:11988099}

#### Tissue Location

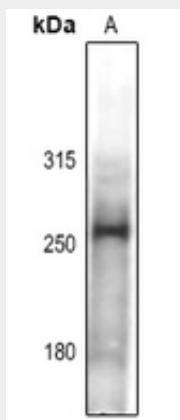
Widely expressed with high levels in heart, skeletal muscle and kidney.

#### Anti-BAF250B Antibody - Protocols

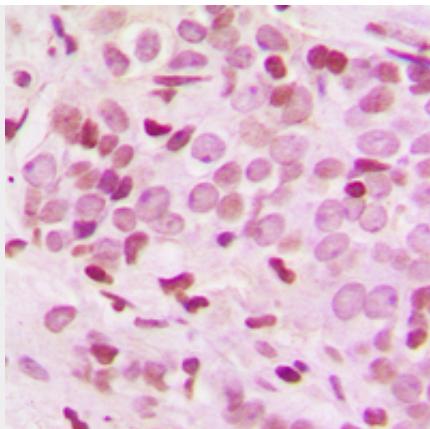
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

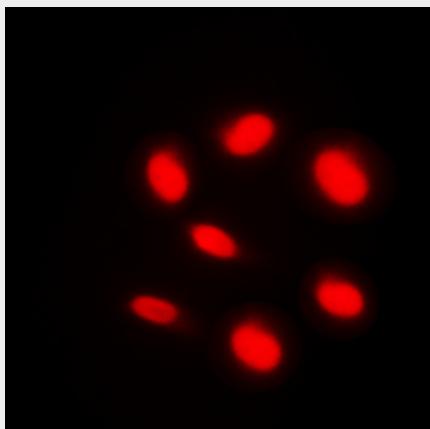
#### Anti-BAF250B Antibody - Images



Western blot analysis of BAF250B expression in A375 (A) whole cell lysates.



Immunohistochemical analysis of BAF250B staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of BAF250B staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-BAF250B Antibody - Background**

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