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# ARGBP2 Antibody (N-term)
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP6997a**

## Specification

### ARGBP2 Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **IF, WB, IHC-P, FC,E** |
| Primary Accession | O94875 |
| Other Accession | O35413, P28220, Q3UTJ2 |
| Reactivity | **Human** |
| Predicted | **Mouse, Pig, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **124108** |
| Antigen Region | **175-204** |

### ARGBP2 Antibody (N-term) - Additional Information

**Gene ID** 8470

**Other Names**
Sorbin and SH3 domain-containing protein 2, Arg/Abl-interacting protein 2, ArgBP2, Sorbin, SORBS2, ARGBP2, KIAA0777

**Target/Specificity**
This ARGBP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-204 amino acids from the N-terminal region of human ARGBP2.

**Dilution**
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

**Precautions**
ARGBP2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### ARGBP2 Antibody (N-term) - Protein Information

**Name** SORBS2

**Synonyms** ARGBP2, KIAA0777

**Function** Adapter protein that plays a role in the assembling of signaling complexes, being a link between ABL kinases and actin cytoskeleton. Can form complex with ABL1 and CBL, thus promoting ubiquitination and degradation of ABL1. May play a role in the regulation of pancreatic cell adhesion, possibly by acting on WASF1 phosphorylation, enhancing phosphorylation by ABL1, as well as dephosphorylation by PTPN12 (PubMed:18559503). Isoform 6 increases water and sodium absorption in the intestine and gall-bladder.

**Cellular Location**
Cytoplasm, perinuclear region. Apical cell membrane. Cell junction, focal adhesion. Cell projection, lamellipodium. Note=Found at the Z-disk sarcomeres, stress fibers, dense bodies and focal adhesion. In pancreatic acinar cells, localized preferentially to the apical membrane. Colocalized with vinculin and filamentous actin at focal adhesions and lamellipodia of pancreatic cells.

**Tissue Location**
Abundantly expressed in heart. In cardiac muscle cells, located in the Z-disks of sarcomere. Also found, but to a lower extent, in small and large intestine, pancreas, thymus, colon, spleen, prostate, testis, brain, ovary and epithelial cells. In the pancreas, mainly expressed in acinar cells, duct cells and all cell types in islets (at protein level). Tends to be down-regulated in pancreatic adenocarcinomas ans metastases.

## ARGBP2 Antibody (N-term) - 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

## ARGBP2 Antibody (N-term) - Images

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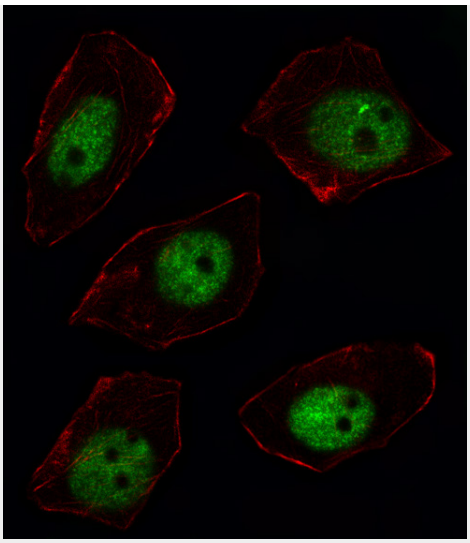
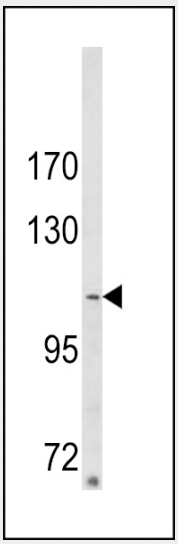


Fluorescent image of U251 cell stained with ARGBP2 Antibody (N-term)(Cat#AP6997a).U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ARGBP2 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃).ARGBP2 immunoreactivity is localized to Nucleus significantly.




Western blot analysis of ARGBP2 Antibody (N-term) (Cat. #AP6997a) in MDA-MB231 cell line lysates (35ug/lane). ARGBP2 (arrow) was detected using the purified Pab.

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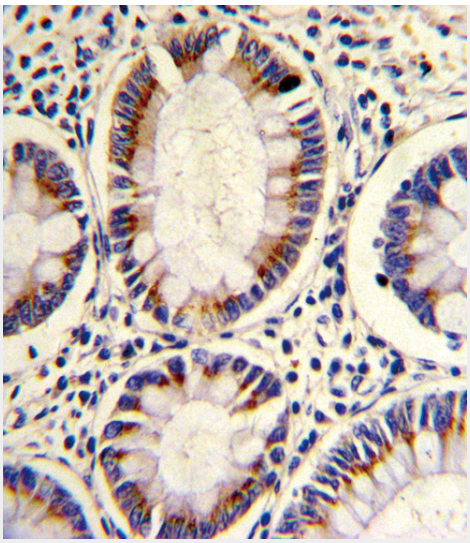
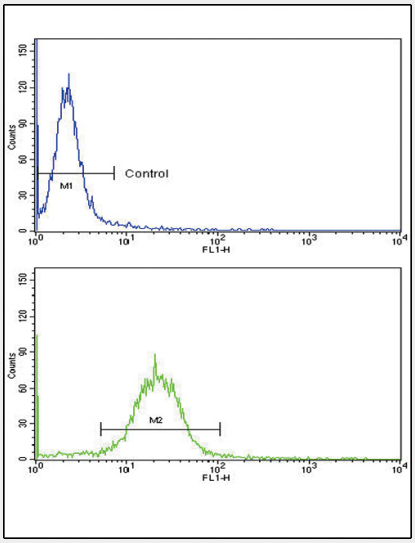


Formalin-fixed and paraffin-embedded human colon carcinoma reacted with ARGBP2 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




Flow cytometric analysis of MDA-231 cells using ARGBP2 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

**ARGBP2 Antibody (N-term) - Background**

Arg and c-Abl represent the mammalian members of the Abelson family of non-receptor protein-tyrosine kinases. They interact with the Arg/Abl binding proteins via the SH3 domains present in the carboxy end of the latter group of proteins. ARGBP2 is the sorbin and SH3 domain containing 2 protein. It has three C-terminal SH3 domains and an N-terminal sorbin homology(SoHo) domain that interacts with lipid raft proteins. The subcellular localization of this protein in epithelial and cardiac muscle cells suggests that it functions as an adapter protein to assemble signaling complexes in stress fibers, and that it is a potential link between Abl family kinases and the actin cytoskeleton.

**ARGBP2 Antibody (N-term) - References**

Yuan,Z.Q.,et.al., J. Biol. Chem. 280 (22), 21483-21490 (2005)
Olsen,J.V., et.al., Cell 127 (3), 635-648 (2006)
Taieb,D., et.al., Cancer Res. 68 (12), 4588-4596 (2008)