

## Rabbit ASAP2 Polyclonal Antibody | anti-ASAP2 antibody

Phospho-ASAP2 (Ser701) Antibody

| CATALOG # | HOST   | REACTIVITY                                                                                                                                  | APPLICATIONS                              |
|-----------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| AAA329864 | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%) | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

ASAP2; Polyclonal Antibody; Phospho-ASAP2 (Ser701) Antibody; AMAP 2; AMAP2; ANK repeat and pHdomain-containing protein 2; Arf-GAP with SH3 domain; ArfGAP with SH3 domain; ankyrin repeat and pHdomain 2; ASAP2\_HUMAN; centaurin; beta 3; CENTB3; DDEF 2; DDEF2; Development and differentiation enhancing factor 2; Development and differentiation-enhancing factor 2; FLJ42910; KIAA0400; PAG 3; PAG3; Pap alpha; PAP; Paxillin associated protein with ARFGAP activity 3; Paxillin-associated protein with ARF GAP activity 3; Pyk2 C terminus associated protein; Pyk2 C-terminus-associated protein; SHAG 1; SHAG1; anti-ASAP2 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                            |
| Reactivity                                      | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)                                                       |
| Clonality                                       | Polyclonal                                                                                                                                                                                        |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                        |
| Specificity                                     | Phospho-ASAP2 (Ser701) Antibody detects endogenous levels of ASAP2 only when phosphorylated at Ser701.<br>Tissue Specificity: Detected in heart, brain, placenta, kidney, monocytes and pancreas. |
| Purity/Purification                             | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.                                    |
| Form/Format                                     | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                          |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                            |
| Applicable Applications for anti-ASAP2 antibody | ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                              |
| Immunogen                                       | A synthesized peptide derived from human ASAP2 around the phosphorylation site of Ser701.                                                                                                         |
| Conjugation                                     | Unconjugated                                                                                                                                                                                      |
| Fragment                                        | Fab fragment                                                                                                                                                                                      |
| Post Translational Modifications                | Phosphorylated on tyrosine residues by SRC and PTK2B.                                                                                                                                             |
| Subunit Structure                               | Binds PXN, ARF1, ARF5, ARF6, PTK2B and SRC.                                                                                                                                                       |
| Similarity                                      | The conserved Arg-464 in the Arf-GAP domain probably becomes part of the active site of bound small GTPases and is necessary for GTP hydrolysis.                                                  |
| Subcellular Location                            | Cytoplasm. Golgi apparatus>Golgi stack membrane>Peripheral membrane protein. Cell membrane>Peripheral membrane protein.<br>Note: Colocalizes with F-actin and ARF6 in phagocytic cups.            |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                 |

IMAGES



**IHC (Immunohistochemistry)**  
At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
At 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
Staining Rat skin tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of DDEF2 (Phospho-Ser701) using EGF treated RAW264.7 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ASAP2 antibody | Activates the small GTPases ARF1, ARF5 and ARF6. Regulates the formation of post-Golgi vesicles and modulates constitutive secretion. Modulates phagocytosis mediated by Fc gamma receptor and ARF6. Modulates PXN recruitment to focal contacts and cell migration. |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 206597522                                                                                                                                                                                                                                                       |
| NCBI GeneID                      | 8853                                                                                                                                                                                                                                                            |
| NCBI Accession #                 | NP_001128663                                                                                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | NM_001135191                                                                                                                                                                                                                                                    |
| UniProt Accession #              | O43150; D6W4Y8                                                                                                                                                                                                                                                  |
| Molecular Weight                 | 106,982 Da                                                                                                                                                                                                                                                      |
| NCBI Official Full Name          | arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 isoform b                                                                                                                                                                                |
| NCBI Official Synonym Full Names | ArfGAP with SH3 domain, ankyrin repeat and PH domain 2                                                                                                                                                                                                          |
| NCBI Official Symbol             | ASAP2                                                                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | PAP; PAG3; AMAP2; DDEF2; SHAG1; CENTB3; Pap-alpha                                                                                                                                                                                                               |
| NCBI Protein Information         | arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2; PYK2 C terminus-associated protein; centaurin, beta 3; development and differentiation enhancing factor 2; development and differentiation-enhancing factor 2; paxillin-associated prot |
| UniProt Protein Name             | Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2                                                                                                                                                                                          |
| UniProt Gene Name                | ASAP2                                                                                                                                                                                                                                                           |
| UniProt Synonym Gene Names       | DDEF2; KIAA0400; PAG3; PAP                                                                                                                                                                                                                                      |
| UniProt Entry Name               | ASAP2_HUMAN                                                                                                                                                                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

