

## Anti-AMPKa1/AMPKa2 antibody (251-550 aa) [SMM5461] (STJ11107375)

### GENERAL INFORMATION

|               |                    |
|---------------|--------------------|
| Product Type  | Primary antibodies |
| Applications  | WB/IHC-P/ELISA     |
| Host / Source | Mouse              |
| Reactivity    | Human/Mouse/Rat    |

### PRODUCT PROPERTIES

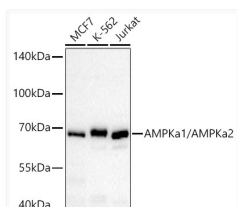
|                  |                                                                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clonality        | Monoclonal                                                                                                                                                                 |
| Concentration    | Lot specific                                                                                                                                                               |
| Conjugation      | Unconjugated                                                                                                                                                               |
| Purification     | Affinity purification                                                                                                                                                      |
| Dilution Range   | WB:1:1000-1:2000<br>IHC-P:1:100-1:500<br>ELISA:Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |
| Formulation      | PBS with 0.1% Sodium Azide, pH 7.3.                                                                                                                                        |
| Isotype          | IgG2ak                                                                                                                                                                     |
| Molecular Weight | Protein Mw: 64kDa/65kDa<br>Observed Mw: 63kDa                                                                                                                              |

### TARGET INFORMATION

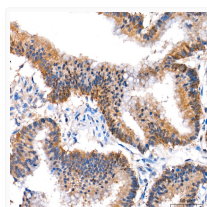
|                    |                                                                                                                                                                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | <a href="#">5562</a><br><a href="#">5563</a>                                                                                                                                                                                                                        |
| Gene Symbol        | <a href="#">PRKAA1</a><br><a href="#">PRKAA2</a>                                                                                                                                                                                                                    |
| UniProt ID         | <a href="#">AAPK1_HUMAN</a><br><a href="#">AAPK2_HUMAN</a>                                                                                                                                                                                                          |
| Immunogen Region   | 251-550 aa                                                                                                                                                                                                                                                          |
| Immunogen Sequence | SVISLLKHMQLQVDPMKRATI KDIREHEWFKQDLPKYLFPE DPSYSSTMIDDEALKEVCEK<br>FECSEEEVLSCLYNRNHQDP LAVAYHLIIDNRRIMNEAKD FYLATSPDSDLDDHHLTRP<br>HPERVPFLVAETPRARHTLD ELNPQKSKHQGVRAKAWHLG IRSQSRPNDIMAEVCRAIKQ<br>LDYEWKVVNPYYLRVRRKNP VTSTYSKMSLQLYQVDSRTY LLDFRSIDDEITEAKSGTA |
| Specificity        | Recombinant fusion protein containing a sequence corresponding to amino acids 251-550 of human AMPK Alpha 1 (Q13131).                                                                                                                                               |

### ADDITIONAL INFORMATION

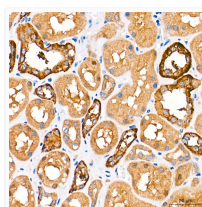
Note STRICTLY FOR FURTHER SCIENTIFIC RESEARCH USE ONLY (RUO). MUST NOT TO BE USED IN DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.



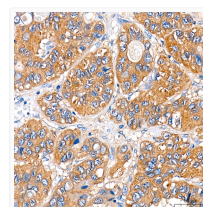
Western blot analysis of various lysates using AMPKa1/AMPKa2 Mouse mAb (STJ11107375) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (STJS000854) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 45s.



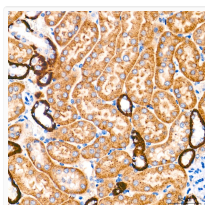
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using AMPKa1/AMPKa2 Mouse mAb (STJ11107375) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to immunohistochemistry staining.



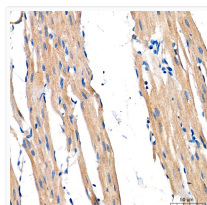
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using AMPKa1/AMPKa2 Mouse mAb (STJ11107375) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to immunohistochemistry staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using AMPKa1/AMPKa2 Mouse mAb (STJ11107375) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to immunohistochemistry staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using AMPKa1/AMPKa2 Mouse mAb (STJ11107375) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to immunohistochemistry staining.



Immunohistochemistry analysis of paraffin-embedded Rat heart tissue using AMPKa1/AMPKa2 Mouse mAb (STJ11107375) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to immunohistochemistry staining.