

## Anti-AMPK Alpha 2 (Phospho-S345) PRKAA2 Antibody

Catalog Number: A01420S345

### About PRKAA2

Following activation by double-stranded RNA in the presence of ATP, the kinase becomes autophosphorylated and can catalyze the phosphorylation of the translation initiation factor EIF2S1, which leads to an inhibition of the initiation of protein synthesis. Double-stranded RNA is generated during the course of a viral infection.

Abujiang Pataer, et.al. (2002) Cancer Res ; 62: 2239.

K. D. Ryman, et.al. (2005) J. Virol ; 79: 1487 - 1499.

Susana Guerra, et.al. (2006) J. Biol. Chem ; 281: 18734 - 18745.

### Overview

|                      |                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-AMPK Alpha 2 (Phospho-S345) PRKAA2 Antibody                                                                                                                   |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                  |
| Description          | Boster Bio Anti-AMPK Alpha 2 (Phospho-S345) PRKAA2 Antibody catalog # A01420S345. Tested in WB,ICC/IF,IHC applications. This antibody reacts with Human,Mouse,Rat. |
| Application          | IF, IHC, ICC, WB                                                                                                                                                   |
| Clonality            | Polyclonal                                                                                                                                                         |
| Formulation          | Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2                                                                                             |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                         |
| Host                 | Rabbit                                                                                                                                                             |
| Uniprot ID           | P54646                                                                                                                                                             |

### Technical Details

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| Immunogen                  | Synthesized peptide derived from human PAKgamma around the phosphorylation site of S197. |
| Predicted Reactive Species | Boar, Bovine, Canine, Golden Hamster                                                     |
| Cross Reactivity           | No cross reactivity with other proteins.                                                 |
| Isotype                    | IgG                                                                                      |
| Form                       | Liquid                                                                                   |
| Concentration              | 1 mg/ml                                                                                  |

| Purification        | ProA affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:500-1:1,000<br/>ICC: 1:50-1:200<br/>IHC: 1:50-1:100</p> |

## Anti-AMPK Alpha 2 (Phospho-S345) PRKAA2 Antibody (A01420S345) Images

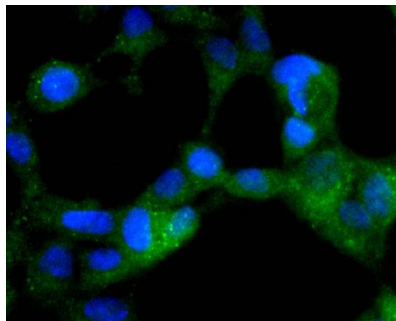


Figure 1. Immunocytochemistry staining of PRKAA2 using Anti-AMPK Alpha 2 (Phospho-S345) PRKAA2 Antibody (A01420S345).

ICC staining Phospho-AMPK alpha 2(S345) in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde

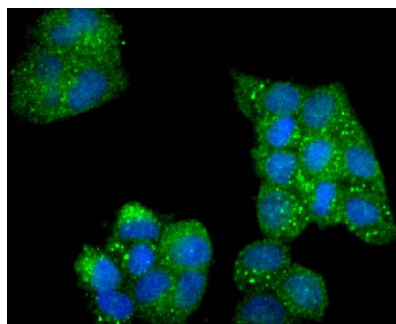


Figure 2. Immunocytochemistry staining of PRKAA2 using Anti-AMPK Alpha 2 (Phospho-S345) PRKAA2 Antibody (A01420S345).

ICC staining Phospho-AMPK alpha 2(S345) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde

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