

## Product Information

### Anti-Gapex-5

produced in rabbit, affinity isolated antibody

Product Number **SAB4200098**

### Product Description

Anti-Gapex-5 is developed in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human Gapex-5 (GeneID 26130), conjugated to KLH. The corresponding sequence is identical in mouse and differs by a single amino acid in rat Gapex-5. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Gapex-5 recognizes human Gapex-5. The antibody may be used in several immunochemical techniques including immunoblotting (~180 kDa) and immuno-precipitation. Detection of the Gapex-5 band by immunoblotting is specifically inhibited by the immunizing peptide.

Gapex-5, originally known as RME-6/RAP6, is a guanine nucleotide exchange factor (GEF) for the Rab5 subfamily of GTPases. Gapex-5 is an evolutionary conserved protein composed of a C-terminal Vps9 domain responsible for the interaction with GDP-bound Rab5 and an N-terminal Ras GAP domain. Gapex-5 has GEF activity specific for Rab5 and GAP activity specific for Ras. Gapex-5 is localized on the plasma membrane and on endosomes, and is involved in multiple processes including receptor-mediated endocytosis, insulin receptor internalization, Glut4 trafficking in adipocytes, EGFR trafficking and degradation, and phagosome maturation.<sup>1-5</sup>

### Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~1.0 mg/mL

### Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Storage in "frost-free" freezers is also not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

### Product Profile

Immunoblotting: a working antibody concentration of 1-2 µg/mL is recommended using whole extracts of human HeLa cells.

Immunoprecipitation: a working antibody amount of 5-10 µg is recommended using lysates of human HEK-293T cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

### References

1. Hunker, C.M. et al., *Biochem. Biophys. Res. Commun.*, **340**, 967-975 (2006).
2. Lodhi, I.J. et al., *Cell Metab.*, **5**, 59-72 (2007).
3. Su, X. et al., *J. Biol. Chem.*, **282**, 21278-21284 (2007).
4. Lodhi, I.J. et al., *Mol. Biol. Cell*, **19**, 2718-2728 (2008).
5. Kitano, M. et al., *Nature*, **453**, 241-245 (2008).

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