

## Product Information

### Anti-OS9

produced in rabbit, affinity isolated antibody

Product Number **SAB4200021**

### Product Description

Anti-OS9 is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human OS9 (GeneID: 10956), conjugated to KLH. The corresponding sequence is identical in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-OS9 recognizes human, rat, and mouse OS9 isoforms 1 and 2. The antibody may be used in various immunochemical techniques including immunoblotting (~97/88 kDa) and immunoprecipitation. Detection of the OS9 bands by immunoblotting is specifically inhibited by the immunizing peptide.

OS9 is an ER-resident lectin involved in ER quality control. OS9 is upregulated in response to ER stress through activation of the Ire1/Xbp1 pathway. OS9 associates both with components of the ERAD machinery and ERAD substrates. OS9 binds to misfolding proteins preventing their secretion from the ER and directing them to the SEL1L/HRD1 dislocation and ubiquitylation complex in the ER membrane. Two OS9 spliced variants, OS-9.1 and OS-9.2, exist. Both variants are ubiquitously expressed in human tissues and are amplified in tumors.<sup>1-4</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, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

### Product Profile

Immunoblotting: a working concentration of 4-8 µg/mL is recommended using whole extracts of human HEK-293T cells.

A working concentration of 2-4 µg/mL is recommended using whole extracts of mouse 3T3 cells.

Immunoprecipitation: a working amount of 5-10 µg is recommended using lysates of rat NRK 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. Bernasconi, R. et al., *J. Biol. Chem.*, **283**, 16446-16454 (2008).
2. Tamura, T. et al., *Trends Biochem. Sci.*, **33**, 298-300 (2008).
3. Christianson, J.C. et al., *Nat. Cell Biol.*, **10**, 272-282 (2008).
4. Alcock, F., and Swanton, E., *J. Mol. Biol.*, **385**, 1032-1042 (2009).

VS,ST,TD,KAA,PHC,MAM 04/19-1