

Product Information

Monoclonal Anti-MAGE-11, Clone 4E7

produced in rat, culture supernatant

Product Number **SAB4200158**

Product Description

Monoclonal Anti-MAGE-11 (rat IgG2a isotype) is derived from the hybridoma 4E7 produced by the fusion of mouse myeloma cells (P3X63Ag8.653) and splenocytes from rat immunized with a fusion protein corresponding to a fragment of human MAGE-11 (Gene ID: 4110).¹ The isotype is determined using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is provided as culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-MAGE-11 recognizes human, monkey, bovine, mouse, rat, hamster, sheep, and dog MAGE-11. The product may be used in several immunochemical techniques including immunoblotting (~47 kDa) immunoprecipitation, and immunocytochemistry.¹

The Melanoma Associated Gene (MAGE) family of genes includes over 25 genes identified in humans. They have roles in neuronal development and apoptosis. Subsequent studies identified three groups of related MAGE genes in clusters on the X chromosome, with MAGE-A genes at Xq28, MAGE-B genes at Xp21, and MAGE-C genes at Xp26–27.

The MAGE-A family consists of 12 proteins and represents a group of cancer-testis antigens. These are expressed in some embryonic tissues but not in normal adult organs, with the exception of testis and placenta, and are aberrantly re-expressed in different types of tumors.^{2,3}

MAGE-A11 has been found mainly in the nucleus.¹ It has been found to be a unique AR coregulator.⁴ Furthermore, EGF-induced ubiquitinylation of MAGE-11 was found to be linked to phosphorylation of MAGE-11, to more rapid turnover of AR and MAGE-11, and to increased AR transcriptional activity during the establishment of uterine receptivity in the human female.⁵⁻⁶ Interestingly, MAGE-11 was found to affect the activation of hypoxia-inducible factors (HIFs), responsible for tumor angiogenesis and glycolytic switch.⁷

Reagent

Supplied as a solution in 0.01M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative, with 10% fetal calf serum.

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 maybe stored at 2–8 °C for up to one month. For extended storage, freeze at –20 °C in working aliquots. Repeated freezing and thawing, or storage in “frost-free” freezers, 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 antibody dilution of 1:250-1:500 is recommended using HeLa cell extracts.

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

References

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4. Bai, S. et al., *Mol. Cell. Biol.*, **25**, 1238-1257 (2005).
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