

## Product Information

**Anti-JAM-A antibody, Mouse monoclonal**  
clone J10.4, purified from hybridoma cell culture

Product Number **SAB4200468**

### Product Description

Anti-JAM-A antibody, Mouse monoclonal, (mouse IgG1 isotype) is derived from the hybridoma J10.4 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a recombinant human JAM (GeneID: 50848) fusion protein.<sup>1</sup> The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Anti-JAM-A antibody, Mouse monoclonal recognizes human JAM-A. The product may be used in several immunochemical techniques including immunoblotting (37 kDa), immunoprecipitation, immunocytochemistry, and flow cytometry.<sup>1</sup>

Junctional adhesion molecule A (JAM-A) is expressed at tight junctions of endothelial and epithelial cells as well as on a variety of hematopoietic cells. JAM-A function has been linked with regulation of cell migration/ invasion, platelet adhesion, cell polarization, cell proliferation, and epithelial or endothelial barrier function. However, the mechanisms by which JAM-A mediates these processes have not been well elucidated. JAM-A functional significance is connected with inflammation, angiogenesis, hypertension, ischemia/reperfusion, and atherosclerosis.<sup>2-4</sup> JAM-A has also been linked to breast, endometrial, and renal cell carcinomas.<sup>5-7</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

This product is 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

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 concentration of 1.0–2.0 µg/mL is recommended using HepG2 or A431 or A549 total cell extracts.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

### References

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5. McSherry, E.A. et al., *Breast Cancer Res.*, **23**, 1-14 (2011).
6. Koshiba, H. et al., *Int. J. Gynecol. Cancer*, **19**, 208-213 (2009).
7. Gutwein, P. et al., *Biochem. Biophys. Res. Commun.*, **380**, 387-391 (2009).

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