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Product Information

Monoclonal Anti-PPIAL4 antibody produced in mouse
clone PP-8, purified from hybridoma cell culture

Product Number **SAB4200674**

Product Description

Monoclonal Anti-PPIAL4 (mouse IgG1 isotype) is derived from the hybridoma PP-8 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with an N-terminal His-tagged recombinant protein of human PPIAL4B (GeneID: 653505). 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.

Monoclonal Anti-PPIAL4 recognizes human PPIAL4B. The antibody may be used in various immunochemical techniques including immunoblotting (~18kDa). Detection of the PPIAL4B band by Immunoblotting is specifically inhibited by the immunogen.

Peptidyl-Prolyl cis-trans Isomerase A-like 4A/B/C (PPIAL4B) also known as COAS2 (Chromosome 1-amplified sequence 2), is a novel member of the cyclosporin-binding peptidyl-prolyl isomerase family, very similar to cyclophilin A. PPIAL4B gene is mapped to 1q21-q23 which undergoes amplification and gain of function that are common abnormalities in solid tumors. PPIAL4B is over-expressed almost exclusively in aggressive metastatic or chemotherapy resistant tumors. Due to the increased gene copy numbers of PPIAL4B, the protein expression was found to be elevated in bladder cancer, hepatocellular carcinomas, breast carcinomas and sarcomas.[1-2]

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 continuous use, store at 2–8 °C for up to one month. For extended storage, freeze in working aliquots. 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 2.5-5 μg/mL is recommended using whole extract of human HepG2 cells.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Meza-Zepeda LA., et al., *Oncogene.*, **21**, 2261-9 (2002).
2. Nilsson M., et al., *Int J Cancer.*, **109**, 363-9 (2004).

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