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Product Information

Monoclonal Anti-BAF155

Clone DXD7

produced in mouse, purified immunoglobulin

Catalog Number **B5186**

Product Description

Monoclonal Anti-BAF155 (mouse IgG1 isotype) is derived from the hybridoma DXD7 produced by the fusion of mouse myeloma cells (P3X63Ag.653 cells) and splenocytes from mice immunized with a synthetic peptide corresponding to amino acids 591-608 of human BAF155 (GeneID: 6599), conjugated to KLH.¹ The isotype is determined using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2.

Monoclonal Anti-BAF155 recognizes human^{1,2} BAF155 and does not react with BAF170.¹ The antibody may be used in immunoblotting (~155 kDa),¹ immunocytochemistry,¹ and immunoprecipitation.^{1,2}

SWI/SNF complexes are transcription-regulating complexes essential for normal differentiation, development, cell proliferation and suppression of carcinogenesis. These complexes are able to remodel chromatin structure through ATP-dependent mechanisms. SWI/SNF complex from human cells are composed of 9 to 12 polypeptides, termed BAFs (for BRG1-associated factors). BAF155 was isolated from a human Jurkat T-cell cDNA library.¹⁻⁴ The gene encodes a polypeptide of 1,104 amino acids, and is homologous both to the yeast SWI3 gene and to BAF170, another protein member of the chromatin-remodeling complex. SWI3, BAF155 and BAF170 contain a leucine zipper region (a dimerization motif for a variety of transcription factors) and a myb-like tryptophan-repeat domain. BAF155 is expressed in many tissues. Null mouse embryos die at an early implantation stage, suggesting that the gene product is essential for normal development.¹⁻⁴

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: ~2 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material 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, 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 2-4 µg/mL is recommended using total cell extract of MCF7 cells.

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

References

1. Wang, X., et al., *Hybridoma*, **24**, 55-57 (2005).
2. Wang, X., et al., *Biochem. J.*, **383**, 319-325 (2004).
3. Wang, W., et al., *Genes Dev.*, **10**, 2117-2130 (1996).
4. Kim, J.K., et al., *Mol. Cell Biol.*, **21**, 7787-7795 (2001).

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