

## Product Information

# Anti-TES Antibody, Mouse Monoclonal

Clone TES75, Purified from Hybridoma Cell Culture

**SAB4200020**

## Product Description

Monoclonal Anti-TES (mouse IgG3 isotype) is derived from the hybridoma TES75 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to a fragment of human TES (GeneID: 26136), conjugated to KLH. The corresponding sequence is identical in monkey, bovine, and mouse but differs by one amino acid in rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Cat. No. ISO2). The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-TES recognizes human, monkey, bovine, and mouse TES. The antibody may be used in several immunochemical techniques including immunoblotting (~ 48 kDa). Detection of the TES band by immunoblotting is specifically inhibited by the immunizing peptide.

Cancer-associated chromosomal changes often involve regions containing fragile sites. *TES* gene maps to a common fragile site on chromosome 7q31.2 designated FRA7G.<sup>1</sup> This gene is similar to mouse *Testin*, a testosterone-responsive gene encoding a Sertoli cell secretory protein containing three LIM domains. The human *Testin* is tightly associated with Sertoli cell membrane upon its secretion once intracellular junctions are formed.<sup>2</sup> Nevertheless, it is widely expressed in all normal human tissues. Interestingly, lack of *TES* mRNA expression was found in several cancer-derived cell lines, particularly hematopoietic, breast and ovarian cancer cell lines as well as in primary tumors, and was correlated with methylation of *TES* CpG island.<sup>1,3</sup> Furthermore, *TES* knockout revealed its role as a tumor suppressor gene as well as in actin stress fiber organization.<sup>4-5</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: ~1.5 mg/mL

## Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

## Storage/Stability

Store at -20 °C. For continuous use, the product may be 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 concentration of 0.5-1.0 µg/mL is recommended using a whole extract of mouse thymus.

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

## References

1. Tobias, E.S. et al., *Oncogene*, 20, 2844-2853 (2001).
2. Grima, J. et al., *J. Biol. Chem.*, 272, 6499-6509 (1997).
3. Sarti, M. et al., *Clin. Cancer Res.*, 11, 806-813 (2005).
4. Drusco, A. et al., *Proc. Natl. Acad. Sci. USA.*, 31, 10947-10951 (2005).
5. Griffith, E. et al., *Cell Motil. Cytoskeleton*, 60, 140-152 (2005).

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