



PRODUCT DATA SHEET

Product: Anti-TCF-3/4, clone 6F12-3

Cat. No.: MC-881 (100 µg)

Background:

TCF-3 and TCF-4 are members of the TCF/LEF (T cell factor / lymphoid enhancer factor) family of transcription factors. Members of this family along with β catenin, are involved in mediating Wnt signaling by transactivating downstream genes. TCF-4 generates transcriptionally active complexes with β catenin in colon carcinoma cells. Expression of TCF-4 is highest in the CNS and intestinal epithelium where Wnt signaling also plays an essential role in development. Aberrant TCF-4 transcription activity has been implicated in carcinogenesis of intestinal and mammary epithelia. TCF-3 appears to be expressed exclusively of TCF-4 in the hair follicles, stomach epithelium and keratinocytes of the skin.

Specificity:

Monoclonal antibody against TCF-3 and TCF-4.

Species Reactivity:

Mouse and human. Others not tested.

Ig Isotype:

Mouse IgG

Immunogen:

His-tagged fusion protein corresponding to amino acids 31-331 of the human TCF.

Format:

Provided as 0.2 µm sterile filtered solution in 0.1 M Tris-glycine, pH 7.4, 0.150 M NaCl, 30% glycerol with 0.08% sodium azide. See vial label for the lot specific concentration.

Storage and Stability:

Stored at -20°C. Aliquot to avoid freeze/thaw cycles.

Applications and Suggested Dilutions:

- Western blot: Detects TCF-4 at 1-4 µg/mL. Detects a 60 kDa band in Cos-1 cells transfected with human TCF-3.
- Immunohistochemistry: paraffin embedded tissue section staining.
- Gel supershift assays

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.