



PRODUCT DATA SHEET

Product: Anti-TCF-4, clone 6H5-3

Cat. No.: MC-882 (100 µg)

Background:

TCF-4 (T-cell factor 4) is a member of the TCF/LEF (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.

Specificity:

Monoclonal antibody against TCF-4.

Species Reactivity:

Human and mouse. Others not tested.

Ig Isotype:

Mouse IgG_{2a}

Immunogen:

The hybridoma was produced by the fusion of splenocytes from BALB/c mice immunized with recombinant protein corresponding to amino acids 31-331 of the human TCF-4 protein.

Format:

100 µg at approximately 1 mg/mL (See vial label for lot specific concentration). Monoclonal antibody is 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.

Storage:

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

Applications and Suggested Dilutions:

- Immunohistochemistry: 4% Paraformaldehyde fixed tissues.
- Western blot: Use at 1-4 µg/mL. Detects a 66 kDa band in Cos-1 cells transfected with human TCF-4.
- Gel Shift
- Immunoprecipitation

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.