

# Anti-5T4 [B5C12]

**Catalogue number:** 152712

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Peter Stern

**Institute:** Cancer Research UK, Manchester Institute

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-5T4 [B5C12]

**Alternate name:** Trophoblast Glycoprotein; 5T4 Oncofetal Trophoblast Glycoprotein; Wnt-Activated Inhibitory Factor 1; 5T4 Oncotrophoblast Glycoprotein; 5T4 Oncofetal Antigen; WAIF1; M6P1; 5T4; 5T4AG

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** The murine 5T4 monoclonal antibody, clone B5C12, defines the human 5T4 oncofoetal antigen, a highly glycosylated protein expressed by trophoblast and a few specialized adult epithelia. Up-regulation of 5T4 expression in some cancers is associated with poor clinical outcome; overexpression of human 5T4 cDNA in epithelial cells can alter their morphology and motility, supporting a role for such functions in cancer and development.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG2b kappa

**Reactivity:** Mouse

**Selectivity:**

**Host:** Mouse

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** 5T4 oncofetal glycoprotein

**Target alternate names:**

**Target background:** The murine 5T4 monoclonal antibody, clone B5C12, defines the human 5T4 oncofoetal antigen, a highly glycosylated protein expressed by trophoblast and a few specialized adult epithelia. Up-regulation of 5T4 expression in some cancers is associated with poor clinical outcome; overexpression of human 5T4 cDNA in epithelial cells can alter their morphology and motility, supporting a role for such functions in cancer and development.

**Molecular weight:** 46.5 kDa

**Ic50:**

## Applications

**Application:** ELISA ; FACS ; IF ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:** Anti-5T4 [B1C3] ; Anti-5T4 [B3F1] ; Anti-5T4 [B5C9]

## References

**References:** Castro et al. 2012. Cancer Immunol Immunother. 61(7):1005-18. PMID: 22127365. ; Southgate et al. 2010. PLoS One. 5(4):e9982. PMID: 20376365. ; CXCR4 mediated chemotaxis is regulated by 5T4 oncofetal glycoprotein in mouse embryonic cells. ; Ward et al. 2003. J Cell Sci. 116(Pt 22):4533-42. PMID: 14576347. ; The 5T4 oncofoetal antigen is an early differentiation marker of mouse ES cells and its absence is a useful means to assess pluripotency. ; Woods et al. 2002. Biochem J. 366(Pt 1):353-65. PMID: 12003637. ; Characterization of the murine 5T4 oncofoetal antigen: a target for immunotherapy in cancer.

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