



Product datasheet

Anti-5T4 antibody [B3F1] ab254168

Recombinant

[1 References](#) [2 Images](#)

Overview

Product name	Anti-5T4 antibody [B3F1]
Description	Mouse monoclonal [B3F1] to 5T4
Host species	Mouse
Tested applications	<p>Suitable for: Flow Cyt</p> <p>Unsuitable for: ICC/IF,IHC-P or WB</p>
Species reactivity	Reacts with: Mouse
Immunogen	<p>Recombinant fragment within Mouse 5T4. The exact sequence is proprietary. Sequence:</p> <p>Mouse 5T4 protein; Distal leucine rich repeat (LRR) extracellular domain</p> <p>Database link: Q9Z0L0</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	Flow Cyt: NIH/3T3 cells.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a different buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p>

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	B3F1
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab254168** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use a concentration of 1.012 mg/ml.

Application notes Is unsuitable for ICC/IF, IHC-P or WB.

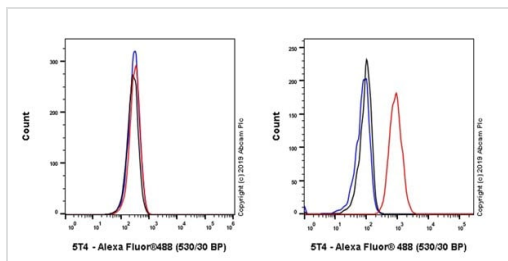
Target

Tissue specificity	Expressed by all types of trophoblasts as early as 9 weeks of development. Specific for trophoblastic cells except for amniotic epithelium. In adult tissues, the expression is limited to a few epithelial cell types but is found on a variety of carcinoma.
Sequence similarities	Contains 6 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain.
Cellular localization	Membrane.

Form

5T4 is a 72 kDa transmembrane glycoprotein that exhibits restricted expression in human and mouse adult tissues, is upregulated on many carcinomas and tumour expression correlates with poorer clinical outcome in ovarian, gastric and colorectal cancers. mES cells lack cell surface expression of the 5T4 antigen, and both protein and mRNA are rapidly upregulated following induction of differentiation. This proteins expression correlates with downregulation of OCT-4 and Tra-1–60 (Ward et al., 2006).

Images







Flow Cytometry - Anti-5T4 antibody [B3F1]
(ab254168)

Flow cytometric analysis of RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage, Left) / NIH/3T3 (Mouse embryonic fibroblast, Right) labeling 5T4 with ab254168 at 1.012µg/ml (red) compared with Mouse monoclonal IgG Isotype Control (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Mouse IgG (Alexa Fluor® 488) (ab150113) at 1/2000 dilution was used as the secondary antibody.

Negative control: RAW 264.7 (PMID: 10366710).

Gated on viable cells.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-5T4 antibody [B3F1] (ab254168)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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