

# Product Data Sheet

## Alexa Fluor® 647 anti-mouse CD34

**Catalog # / Size:** 128605 / 25 µg  
128606 / 100 µg

**Clone:** HM34

**Isotype:** Armenian Hamster IgG

**Immunogen:** Mouse CD34 transfected BHK cells

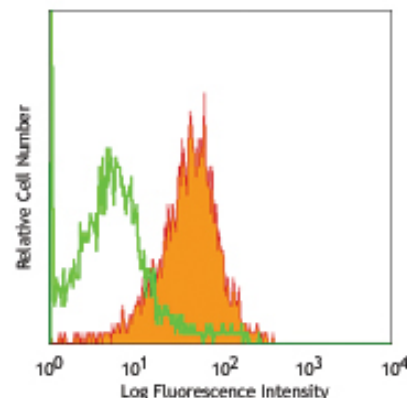
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



NIH/3T3 cell line stained with HM34  
Alexa Fluor® 647

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

\*\* Alexa Fluor® 647 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 647 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**Application Notes:** The HM34 antibody does not stain bone marrow cells like some other mouse CD34 antibodies, probably because the antibody recognizes a different epitope from other mAbs.

**Description:** CD34 is a highly glycosylated hematopoietic progenitor antigen. Two isoforms of CD34 have been reported. CD34 is expressed on hematopoietic progenitors, as well as endothelial cells, brain and testis. CD34 is thought to function as an adhesion molecule for attachment of stem cells to extracellular matrix or stromal cells.

**Antigen References:** 1. Garlanda C, *et al.* 1997. *Eur J Cell Biol* 73:368  
2. Brown J, *et al.* 1991. *Int Immunol* 3:175

### Related Products:

**Product**  
Alexa Fluor® 647 Armenian Hamster IgG Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
TruStain fcX™ (anti-mouse CD16/32)

**Clone**  
HTK888

93

**Application**  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC



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