

# Product Datasheet

## CD34 Antibody (QBEnd/10) [Alexa Fluor® 647] NBP2-34713AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-34713AF647**

CD34 Antibody (QBEnd/10) [Alexa Fluor® 647]

| <b>Product Information</b>     |   |
|--------------------------------|---|
| <b>Unit Size</b>               | 0.1 ml  |
| <b>Concentration</b>           | Please see the vial label for concentration. If unlisted please contact technical services.   |
| <b>Storage</b>                 | Store at 4C in the dark.  |
| <b>Clonality</b>               | Monoclonal  |
| <b>Clone</b>                   | QBEnd/10  |
| <b>Preservative</b>            | 0.05% Sodium Azide  |
| <b>Isotype</b>                 | IgG1 Kappa  |
| <b>Conjugate</b>               | Alexa Fluor 647   |
| <b>Purity</b>                  | Protein A purified  |
| <b>Buffer</b>                  | 50mM Sodium Borate  |
| <b>Product Description</b>     |   |
| <b>Host</b>                    | Mouse   |
| <b>Gene ID</b>                 | 947   |
| <b>Gene Symbol</b>             | CD34  |
| <b>Species</b>                 | Human, Primate, Bovine (Negative), Canine (Negative), Rat (Negative), Sheep (Negative)  |
| <b>Reactivity Notes</b>        | Cynomolgus Monkey, Rhesus Monkey  |
| <b>Marker</b>                  | Hematopoietic Stem Cell & Endothelial Marker  |
| <b>Specificity/Sensitivity</b> | This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. CD34 expression is a hallmark for identifying pluripotent hematopoietic stem or progenitor cells. Its expression is gradually lost as lineage committed progenitors differentiate. CD34 is a marker of choice for staining blasts in acute myeloid leukemia. In addition, CD34 is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. Its expression is also found in vascular endothelium. Additionally, it appears that proliferating endothelial cells express this molecule more than the non-proliferating endothelial cells. Anti-CD34 labels > 85% of angiosarcoma and Kaposi s sarcoma, but with a lower specificity. |
| <b>Immunogen</b>               | Detergent solubilized vesicular suspension prepared from human term placenta  |

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|--------------|--|
| <b>Notes</b> | Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@lifetech.com">outlicensing@lifetech.com</a> . This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. |
|--------------|--|

| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready |
| <b>Recommended Dilutions</b>       | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, CyTOF-ready |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.  |

## Images

Product Image: CD34 Antibody (QBEnd/10) [Alexa Fluor® 647] [NBP2-34713AF647] - Vial of Alexa Fluor 647 conjugated antibody. Alexa Fluor 647 is optimally excited at 653 nm by the Red laser (633 or 640 nm) and has an emission maximum of 669 nm.





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### **Products Related to NBP2-34713AF647**

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|             |   |
|-------------|---|
| IC002R      | Mouse IgG1 Isotype Control (11711) [Alexa Fluor® 647] |
| NBP2-22751  | Recombinant Human CD34 His Protein                    |
| 210-TA-005  | TNF-alpha [Unconjugated]                              |
| 9655-CD-050 | CD34 [Unconjugated]                                   |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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