

# CD115 (c-fms) Monoclonal Antibody (AFS98), eBioscience™

## Product Details

|                    |                         |
|--------------------|-------------------------|
| Size               | 100 µg                  |
| Species Reactivity | Mouse                   |
| Published Species  | Fish, Mouse, Human      |
| Host/Isotype       | Rat / IgG2a, kappa      |
| Class              | Monoclonal              |
| Type               | Antibody                |
| Clone              | AFS98                   |
| Conjugate          | Unconjugated            |
| Form               | Liquid                  |
| Concentration      | 0.5 mg/mL               |
| Purification       | Affinity chromatography |
| Storage buffer     | PBS, pH 7.2             |
| Contains           | 0.09% sodium azide      |
| Storage conditions | 4° C                    |
| RRID               | AB_467428               |

| Applications                            | Tested Dilution | Publications    |
|---|-----------------|-----------------|
| Western Blot (WB)                       | Assay-Dependent | 2 Publications  |
| Immunohistochemistry (IHC)              | -               | 2 Publications  |
| Immunohistochemistry (Frozen) (IHC (F)) | Assay-Dependent | 1 Publication   |
| Immunocytochemistry (ICC/IF)            | -               | 3 Publications  |
| Flow Cytometry (Flow)                   | 1 µg/test       | 68 Publications |
| Neutralization (Neu)                    | Assay-Dependent | 4 Publications  |
| Functional Assay (FN)                   | Assay-Dependent | -               |
| Inhibition Assays (IA)                  | -               | 1 Publication   |
| Miscellaneous PubMed (Misc)             | -               | 1 Publication   |

## Product Specific Information

**Description:** The AFS98 monoclonal antibody reacts with the mouse CD115 molecule, a receptor for macrophage colony stimulating factor (M-CSF) or colony stimulating factor-1 (CSF-1). CD115 is expressed by monocyte, macrophage, osteoclast, and some epithelial cells. It is a 150 kDa c-fms gene product and belongs to immunoglobulin family. CSF-1 signaling through CSF-1R regulates the proliferation and differentiation of cells in the monocytic lineage.

**Applications Reported:** The AFS98 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistochemical staining of frozen tissue sections. It has also been reported in blocking of ligand binding. (Please use Functional Grade purified AFS98, cat. 16-1152, in functional assays.).

**Applications Tested:** The AFS98 antibody has been tested by blocking of fluorochrome conjugated AFS98 in flow cytometric analysis of peritoneal exudate cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the

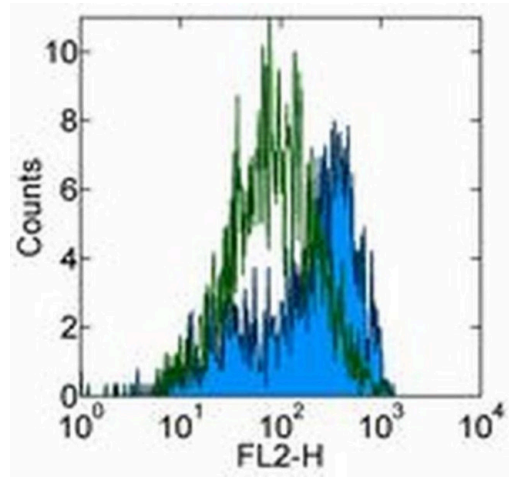
assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD115 (c-fms) Monoclonal Antibody (AFS98), eBioscience™**



**CD115 (c-fms) Antibody (14-1152-82) in Flow**  
Staining of thioglycolate-induced peritoneal exudate cells (PECs) with 0.25 µg of Rat IgG2a kappa Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 µg of Anti-Mouse CD115 (c-fms) Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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## Western Blot (2)

|   |   |
|---|---|
| <p><b>Journal of cell science</b></p> <p><b>Delivery of CSF-1R to the lumen of macropinosomes promotes its destruction in macrophages.</b></p> <p>"14-1152-82 was used in Immunocytochemistry to show that internalisation of CSF-1R in small endocytic vesicles outcompetes CSF-1R endocytosis via macropinocytosis."</p> <p>Authors: Lou J,Low-Nam ST,Kerkvliet JG,Hoppe AD</p> | <p><b>Year</b><br/>2014</p> <p><b>Species</b><br/>Mouse</p> |
| <p><b>PloS one</b></p> <p><b>Hypoxia enhances the proliferative response of macrophages to CSF-1 and their pro-survival response to TNF.</b></p> <p>"14-1152 was used in Western Blotting to examine the effects of hypoxia on the macrophage response to CSF-1 and TNF."</p> <p>Authors: Hamilton JA,Lacey DC,Turner A,de Kok B,Huynh J,Scholz GM</p>                            | <p><b>Year</b><br/>2013</p> <p><b>Species</b><br/>Mouse</p> |

## Immunohistochemistry (2)

|   |  |
|---|--|
| <p><b>The Journal of clinical investigation</b></p> <p><b>Stat3-dependent acute Rantes production in vascular smooth muscle cells modulates inflammation following arterial injury in mice.</b></p> <p>"Published figure using CD115 (c-fms) monoclonal antibody (Product # 14-1152-82) in Immunofluorescence"</p> <p>Authors: Kovacic JC,Gupta R,Lee AC,Ma M,Fang F,Tolbert CN,Walts AD,Beltran LE,San H,Chen G,St Hilaire C,Boehm M</p> | <p><b>Year</b><br/>2010</p> <p><b>Species</b><br/>Mouse</p> <p><b>Dilution</b><br/>1:100</p> |
| <p><b>Nature immunology</b></p> <p><b>The receptor tyrosine kinase Flt3 is required for dendritic cell development in peripheral lymphoid tissues.</b></p> <p>"14-1152-82 was used in Immunohistochemistry to investigate the hematopoietic growth factors regulating dendritic development."</p> <p>Authors: Waskow C,Liu K,Darrasse-Jèze G,Guermonprez P,Ginhoux F,Merad M,Shengelia T,Yao K,Nussenzweig M</p>                          | <p><b>Year</b><br/>2008</p> <p><b>Species</b><br/>Mouse</p>                                  |

## More applications with references on thermofisher.com

- IHC (F) (1)
- ICC/IF (3)
- Flow (68)
- Neu (4)
- IA (1)
- Misc (1)

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