

# CD45 Monoclonal Antibody (30-F11), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_657751

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	29 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.5 µg/test	135 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-

## Product Specific Information

Description: The 30-F11 monoclonal antibody reacts with all isoforms of mouse CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding mature erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in activation of lymphocytes.

Applications Reported: The 30-F11 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. 30-F11 has also been reported in complement-dependent cytotoxicity. (Please use Functional Grade purified 30-F11 in functional assays).

Applications Tested: This 30-F11 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and

splenocytes. This can be used at less than or equal to 0.5 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.

Storage and handling: Use in a sterile environment.

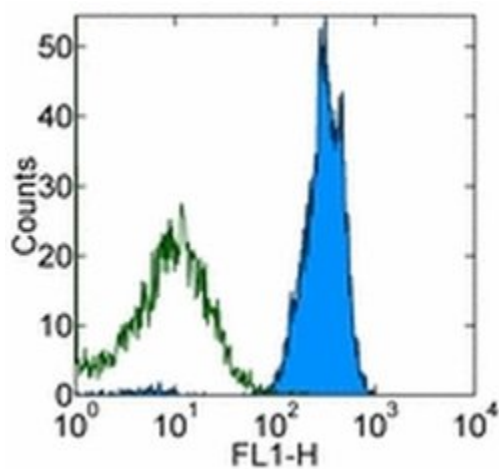
Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

## Product Images For CD45 Monoclonal Antibody (30-F11), Functional Grade, eBioscience™



### CD45 Antibody (16-0451-85) in Flow

Staining of C57Bl/6 splenocytes with 0.25 µg of Purified Rat IgG2b kappa Isotype Control (Product # 14-4031-82) (open histogram) or 0.25 µg of Anti-Mouse CD45 Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## Immunohistochemistry (29)

### Biomedicines

#### Absence of Cold-Inducible RNA-Binding Protein (CIRP) Promotes Angiogenesis and Regeneration of Ischemic Tissue by Inducing M2-Like Macrophage Polarization.

"Published figure using CD45 monoclonal antibody (Product # 16-0451-85) in Immunohistochemistry"

Authors: Kübler M, Beck S, Fischer S, Götz P, Kumaraswami K, Ishikawa-Ankerhold H, Lasch M, Deindl E

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

### Journal of ophthalmology

#### Reduced Expression of VAMP8 in Lacrimal Gland Affected by Chronic Graft-versus-Host Disease.

"Published figure using CD45 monoclonal antibody (Product # 16-0451-85) in Immunofluorescence"

Authors: Fukui M, Ogawa Y, Mukai S, Kamoi M, Asato T, Kawakami Y, Tsubota K

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

[View more IHC references on thermofisher.com](#)

## Immunohistochemistry (Paraffin) (1)

### Development (Cambridge, England)

#### PDGFR/PDGFR signaling balance modulates progenitor cell differentiation into white and beige adipocytes.

"16-0451 was used in Immunohistochemistry on paraffin embedded tissues-immunofluorescence to uncover depot specificity of pre-adipocyte delineation by defining the developmental timing of PDGFR and PDGFR expression in mouse subcutaneous and visceral adipose depots."

Authors: Gao Z, Daquinag AC, Su F, Snyder B, Kolonin MG

**Species**  
Human  
Mouse

**Dilution**  
1:50  
1:50

**Year**  
2018

## Immunocytochemistry (4)

### PloS one

#### A patient derived xenograft model of cervical cancer and cervical dysplasia.

"Published figure using CD45 monoclonal antibody (Product # 16-0451-85) in Immunofluorescence"

Authors: Larmour LI, Cousins FL, Teague JA, Deane JA, Jobling TW, Gargett CE

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

[View more ICC/IF references on thermofisher.com](#)

## More applications with references on thermofisher.com

## Flow (135)

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