

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	30-F11
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_467251

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	Assay-Dependent	43 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	7 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	10 Publications
Immunocytochemistry (ICC/IF)	-	10 Publications
Flow Cytometry (Flow)	0.5 µg/test	224 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	3 Publications
In vitro Assay (IV)	-	1 Publication

## 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.).

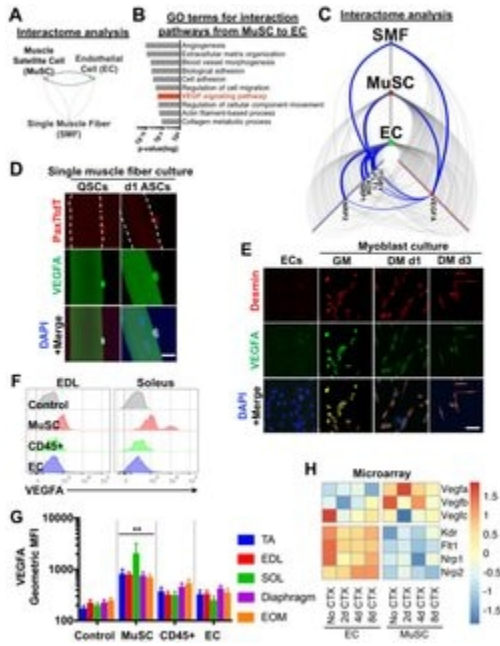
Applications Tested: The 30-F11 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocytes. This can be used at less than or equal to 0.5 μg per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 μL. Cell number should be determined empirically but can range from 10<sup>4</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.

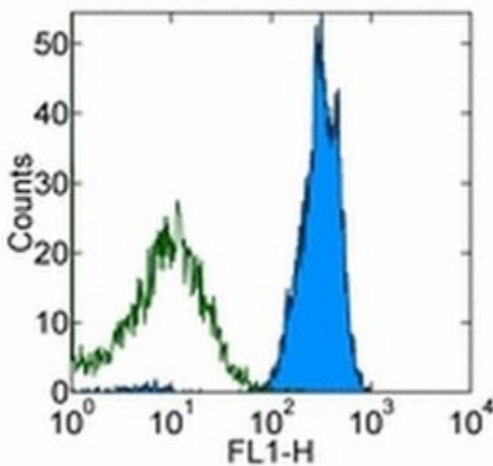
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 μm post-manufacturing filtered.

## Advanced Verification Data



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



### CD45 Antibody (14-0451-82) in Flow

Staining of C57Bl/6 splenocytes with 0.25 μg of Rat IgG2b Isotype Control Purified (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://thermofisher.com)

## Immunohistochemistry (43)

### Nephron

#### Tissue Inhibitor of Metalloproteinases-2 Mediates Kidney Injury during Sepsis.

"14-0451 was used in Immunohistochemistry-immunofluorescence to propose that urinary tissue inhibitor of metalloproteinases-2 mediates sepsis-associated acute kidney injury and appears to be a viable drug target."

Authors: Wen X,Zhang J,Wan X,Frank AA,Qu X,Kellum JA

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2021

### 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 # 14-0451-82) 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

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

## Immunohistochemistry (Paraffin) (7)

### Journal of ophthalmology

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

"Published figure using CD45 monoclonal antibody (Product # 14-0451-82) in Immunofluorescence"

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

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

### eLife

#### Osterix-Cre marks distinct subsets of CD45- and CD45+ stromal populations in extra-skeletal tumors with pro-tumorigenic characteristics.

"14-0451-85 was used in Immunohistochemistry (Paraffin), Immunohistochemistry to find Osx transcript and Osx protein expression early during hematopoiesis, in subsets of hematopoietic stem cells and multipotent progenitor populations."

Authors: Ricci B,Tycksen E,Celik H,Belle JI,Fontana F,Civitelli R,Faccio R

**Species**  
Mouse

**Dilution**  
1:200

**Year**  
2020

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

## More applications with references on thermofisher.com

IHC (PFA) (1)

IHC (F) (10)

ICC/IF (10)

Flow (224)

ELISA (1)

FN (3)

IV (1)

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