

## Anti-CD86 antibody [EP1158Y] ab53004



★★★★☆ 4 Abreviews | 📖 7 References | 4 Images

## Overview

<b>Product name</b>	Anti-CD86 antibody [EP1158Y]
<b>Description</b>	Rabbit monoclonal [EP1158Y] to CD86
<b>Specificity</b>	This antibody has been found to work on mouse samples in WB but not IHC.
<b>Tested applications</b>	WB, IP, ICC, Flow Cyt, IHC-P, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human, Cynomolgus Monkey
<b>Immunogen</b>	synthetic peptide corresponding to residues near the N-terminus of human B7-2 was used as an immunogen
<b>Positive control</b>	Raji cell membrane lysate Human tonsil tissue
<b>General notes</b>	Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.  This product is available conjugated to DyLight® 488 see <a href="#">ab139839</a> .

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Store at -20°C. Stable for 12 months at -20°C
<b>Storage buffer</b>	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1158Y
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab53004** in the following tested applications.

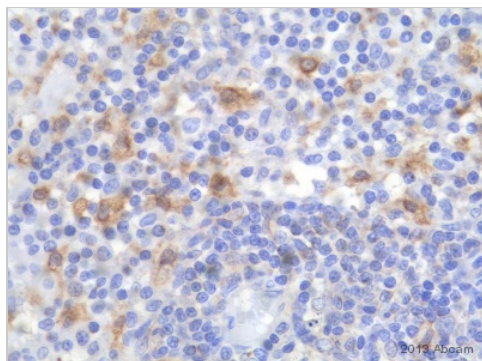
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<a href="#">WB</a>	★★★★★	1/5000. Detects a band of approximately 70 kDa.
<a href="#">IP</a>		1/50.
<a href="#">ICC</a>		1/100 - 1/250.
<a href="#">Flow Cyt</a>		1/10. Ab172730-Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<a href="#">IHC-P</a>	★★★★☆	Use at an assay dependent concentration.
<a href="#">IHC-Fr</a>		Use at an assay dependent concentration. PubMed: 21998115

## Target

<b>Function</b>	Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation.
<b>Tissue specificity</b>	Expressed by activated B-lymphocytes and monocytes.
<b>Sequence similarities</b>	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
<b>Post-translational</b>	Polyubiquitinated; which is promoted by MARCH8 and results in endocytosis and lysosomal degradation.

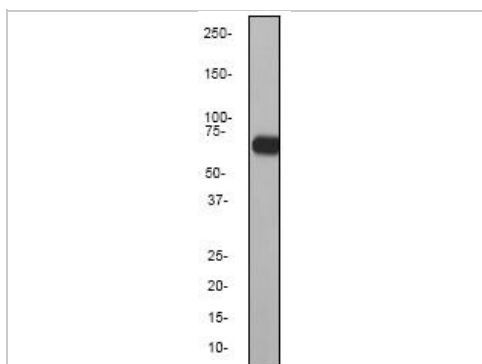
## Anti-CD86 antibody [EP1158Y] images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD86 [EP1158Y] antibody (ab53004)

This image is courtesy of an Abreview submitted by Jing Ma

ab53004 staining CD86 in Cynomolgus Monkey lymph node tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 10% serum for 20 minutes at room temperature; antigen retrieval was by heat mediation in a citrate buffer, pH 6.0. Samples were incubated with primary antibody (1/800) for 30 minutes at room temperature. An undiluted Biotin-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.



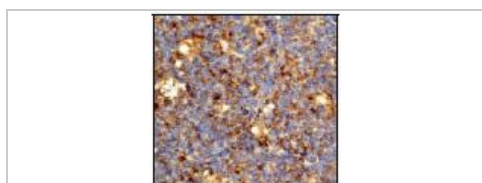
Western blot - CD86 antibody [EP1158Y] (ab53004)

Anti-CD86 antibody [EP1158Y] (ab53004) at 1/5000 dilution + Raji cell lysate at 10 µg

**Secondary**

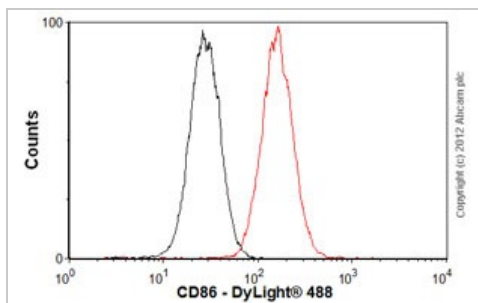
goat anti-rabbit HRP labelled at 1/2000 dilution

**Observed band size** : 70 kDa



Immunohistochemistry (Paraffin-embedded sections) - CD86 antibody [EP1158Y] (ab53004)

ab53004, at a 1/100 dilution, staining Human CD86 in Tonsil, using Immunohistochemistry, Paraffin embedded tissue.ab53004, at a 1/100 dilution, staining Human CD86 in Tonsil, using Immunohistochemistry, Paraffin embedded tissue.



Flow Cytometry - Anti-CD86 antibody [EP1158Y]  
(ab53004)

Overlay histogram showing Raji cells stained with ab53004 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1xPBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53004, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive result in 80% methanol (5 min) fixed Raji cells used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

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