



# Mouse Anti-Viral EBV interleukin 10 monoclonal antibody, clone 245317 (CABT- L4258)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	E. coli-derived recombinant viral EBV IL-10 Gln26-Arg170
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	245317
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Format</b>	Lyophilized
<b>Size</b>	500 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None
<b>Storage</b>	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.

# BACKGROUND

**Introduction**

Interleukin 10 (IL-10) is a pleiotropic cytokine that plays an important role in regulating inflammatory and immune responses. It is a potent suppressant of proinflammatory cytokine production by monocytes/macrophages and neutrophils. It is also an inhibitor of macrophage and T cell effector functions. Homologs of mammalian IL-10 have been identified in the genome of several viruses, including Epstein-Barr virus (EBV), poxvirus Orf, baboon cytomegalovirus, and human and equine herpes virus. In the EBV genome, the BCRF1 open reading frame encodes the EBV IL-10 (vIL-10). The viral IL-10 precursor is a 170 amino acid residue (aa) protein with a putative 25 aa signal peptide that is cleaved to yield the 145 aa mature protein. The EBV IL-10 precursor shares approximately 78% and 65% amino acid sequence homology with human and mouse IL-10, respectively. Most of the deviations are localized to the signal peptide and the first 20 amino-terminal residues. Viral IL-10 is expressed during the late phase of the lytic cycle of EBV infection. Viral IL-10 is a partial agonist of mammalian IL-10 and shares many of their activities. It is likely that vIL-10 may have a role in host immune evasion.

**Keywords**

CSIF;CSIFMGC126450;Cytokine synthesis inhibitory factor;GVHDS;IL10;IL-10;IL10A;IL-10MGC126451;interleukin 10;interleukin-10;TGIF

# GENE INFORMATION

**Official Symbol**

Interleukin 10