

DESCRIPTION

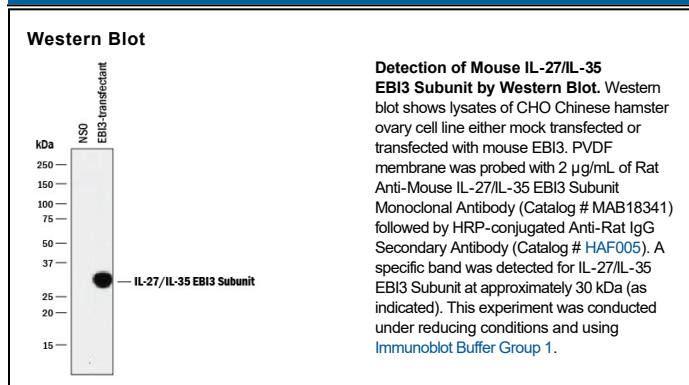
Species Reactivity	Mouse
Specificity	Detects mouse IL-27/IL-35 EBI3 Subunit in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human IL-27/IL-35 EBI3 subunit.
Source	Monoclonal Rat IgG _{2A} Clone # 355022
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-27 heterodimer Tyr19-Pro228 (EBI3) & Phe29-Ser234 (p28) Accession # O35228 (EBI3) & Q8K3I6 (p28)
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

IL-27 is a heterodimeric cytokine comprised of the IL-12 p35-related protein, p28, and the IL-12 p40-related protein, EBI3 (Epstein-Barr virus-induced gene 3). IL-27 is expressed by monocytes, endothelial cells and dendritic cells. It binds TCCR/WSX-1 on naive CD4⁺ T cells and induces the expression of a functional IL-12 receptor, making these cells sensitive to IL-12-mediated Th1 cell development. Human EBI3 also associates with the p35 subunit of IL-12 to form IL-35 which is important for immunosuppressive Treg cell induction. EBI3 is 61% amino acid (aa) identical to mouse EBI3 and includes an 20 aa signal peptide and a 209 aa mature protein with two fibronectin type III domains.