

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-27 p28/IL-30 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-27 p28/IL-30 Phe29-Ser234 Accession # Q8K3I6
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

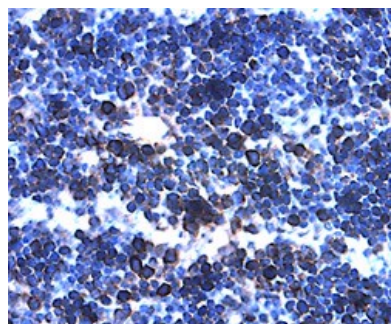
APPLICATIONS

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	0.1 µg/mL	Recombinant Mouse IL-27 p28/IL-30
Immunohistochemistry	5-15 µg/mL	See Below
Neutralization	Measured by its ability to neutralize IL-27 inhibition of EMCV-induced cytopathy in the HepG2 human hepatocellular carcinoma cell line. Bender, H. <i>et al.</i> (2009) <i>Hepatology</i> 50 :585. The Neutralization Dose (ND ₅₀) is typically 1-5 µg/mL in the presence of 10 ng/mL Recombinant Mouse IL-27.	

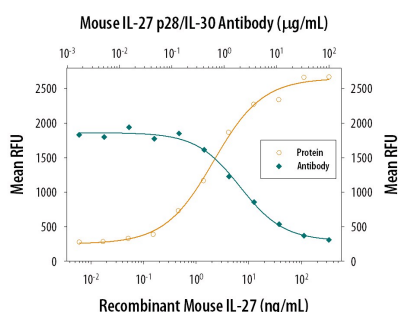
DATA

Immunohistochemistry



IL-27 p28/IL-30 in Mouse Thymus.
IL-27 p28/IL-30 was detected in perfusion fixed paraffin-embedded sections of mouse thymus using 15 µg/mL Mouse IL-27 p28/IL-30 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1834) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Neutralization



IL-27 Inhibition of EMCV-induced Cytopathy and Neutralization by Mouse IL-27 p28/IL-30 Antibody.
Recombinant Mouse IL-27 (Catalog # 2799-ML) reduces the Encephalomyocarditis Virus (EMCV)-induced cytopathy in the HepG2 human hepatocellular carcinoma cell line in a dose-dependent manner (orange line), as measured by Resazurin. Inhibition of EMCV activity elicited by Recombinant Mouse IL-27 (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse IL-27 p28/IL-30 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1834). The ND₅₀ is typically 1-5 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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 p28 subunit (also known as IL-30 and Interleukin-27 subunit alpha) is a 26 kDa glycoprotein. IL-27 is a heterodimeric cytokine consisting of the IL-27 p28 subunit that is an IL-12 p35 related protein and EBI3, which is related to IL-12 p40. The biological effects of IL-27 are mediated by the heteromeric receptor complex gp130 and TCCR/WSX-1.