

# **Mouse IL-20 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1204

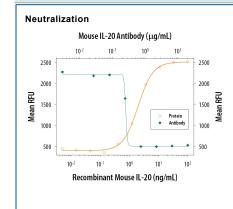
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse IL-20 in direct ELISAs and the Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human IL-20 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse IL-20 Leu25-Leu176 Accession # Q9JKV9		
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-20 (Catalog # 1204-ML)
Neutralization	, ,	y to neutralize IL-20-induced proliferation in the BaF3 mouse pro-B cell line co-transfected and IL-20 Rβ. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.2-0.6 μg/mL in the presence of the Mouse IL-20.

### DATA



IL-20 and Neutralization by Mouse IL-20 Antibody. Recombinant Mouse IL-20 (Catalog # 1204-ML) stimulates proliferation in the BaF3 mouse pro-B cell line co-transfected with human IL-20 R $\alpha$  and IL-20 R $\beta$  in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Mouse IL-20 (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse IL-20 Antigen Affinity-purified Polyclonal Antibody

(Catalog # AF1204). The  $ND_{50}$  is typically 0.2-0.6  $\mu$ g/mL.

Cell Proliferation Induced by

## PREPARATION AND STORAGE

Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.

- 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.





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#### BACKGROUND

Mouse Interleukin 20 (IL-20) was identified by searching sequence databases for translated sequences with a signal sequence and amphipathic helices found in helical cytokines. Based on the human molecule, mouse IL-20 was discovered in a skin library. Mouse IL-20 is synthesized as a 176 amino acid (aa) precursor that contains a 24 aa signal sequence and a 152 aa mature segment. There are no N-linked glycosylation sites and it is doubtful that the native molecule is glycosylated. Although IL-20 is a distant member of the IL-10 family, it functions as a monomer. IL-20 shares less than 40% aa sequence identity with other IL-10 family members. Mouse and human IL-20 are 77% aa identical in the mature segment. IL-20 production has been found in skin and trachea. In particular, activated keratinocytes and, possibly, monocytes are reported to express IL-20. There are two heterodimeric receptor complexes for IL-20. The first complex is composed of IL-20 R $\alpha$  and IL-20 R $\alpha$ . The second complex is composed of IL-22 R and IL-20 R $\alpha$ . Whereas the IL-22 R/IL-20 R $\alpha$  complex is shared with IL-24/mda-7, the IL-20 R $\alpha$ IL-20 R $\alpha$ IL-20 R $\alpha$ IL-20 R $\alpha$ It is reported to induce the proliferation of multipotential hematopoietic progenitor cells, direct the differentiation and expansion of keratinocytes, and promote the release of proinflammatory mediators in keratinocytes and other IL-20 receptor expressing cells (1-6).

#### References:

- 1. Blumberg, H. et al. (2001) Cell 104:9.
- Liu, L. et al. (2003) Blood 102:3206.
- 3. Rich, B.E. and T.S. Kupper (2001) Curr. Biol. 11:R531.
- 4. Pestka, S. et al. (2004) Annu. Rev. Immunol. 22:929.
- 5. Dumoutier, L. (2001) J. Immunol. 167:3545.
- 6. Romer, J. (2003) J. Invest. Dermatol. 121:1306.

