Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1204

DESCRIPTION

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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	<i>E. coli</i> -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. *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	0.1 μg/mL	Recombinant Mouse IL-20 (Catalog # 1204-ML)	
Neutralization	with human IL-20 Rα	Measured by its ability to neutralize IL-20-induced proliferation in the BaF3 mouse pro-B cell line co-transfected with human IL-20 R α and IL-20 R β . The Neutralization Dose (ND ₅₀) is typically 0.2-0.6 µg/mL in the presence of	
	10 ng/mL Recombina	ant Mouse IL-20.	



• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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Mouse IL-20 Antibody

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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, moncytes are reported to express IL-20. There are two heterodimeric receptor complexes for IL-20. The first complex is composed of IL-20 R α and IL-20 R β . The second complex is composed of IL-20 R α and IL-20 R β . Whereas the IL-22 R β L-20 R β complex is shared with IL-24/mda-7, the IL-20 R α /IL-20 R β complex is shared with IL-24. Little is known about the function of IL-20. 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:

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