

Human/Canine IL-23 p19 Antibody

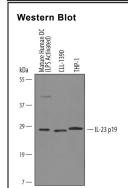
Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6250

DESCRIPTION				
Species Reactivity	Human/Canine			
Specificity	Detects human and canine IL-23 p19 in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant feline IL-23 p19 is observed and approximately 40% cross-reactivity with recombinant mouse IL-23 p19 is observed.			
Source	Polyclonal Sheep IgG			
Purification	Antigen Affinity-purified			
Immunogen	E. coli-derived recombinant canine IL-23 p19 Arg23-Pro193 Accession # XP_538231			
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.			

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	0.5 μg/mL	See Below

DATA



Detection of Human and Canine IL-23 p19 by Western Blot. Western blot shows lysates of human mature dendritic cells (LPS activated), CLL-1390 canine leukocytic round cell neoplasia cell line, and THP-1 human acute monocytic leukemia cell line. PVDF Membrane was probed with 0.5 μg/mL of Sheep Anti-Canine IL-23 p19 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF6250) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for IL-23 p19 at approximately 26-28 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final	al concentration of 0.2 mg/mL.

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.

- 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.

IL-23 p19 (Interleukin 23 p19; also IL-23 alpha) is an 18-20 kDa (estimated) member of the IL-6 superfamily of molecules. It is disulfide-bonded to p40 to form IL-23. IL-23 is secreted by immune-related cell types such as keratinocytes, dendritic cells, macrophages, microglia and monocytes, often following TLR stimulation. It appears to drive Th17 cell development by inhibiting T-bet and FoxP3 production, and to reduce IL-12-mediated IFN-γ production by CD4*, CD8* and NK cells. Based on human, mature canine IL-23 p19 is 171 amino acids (aa) in length. It is a α-helical molecule that utilizes Cys77 to form an interchain disulfide bond with IL-12 p40. IL-23 p19 does not appear to be released unless dimerized to p40. There are no potential N-linked glycosylation sites on p19. Mature canine IL-23 p19 (aa 23-193) shares 88% aa identity with human IL-23 p19.

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