Human/Feline IL-23 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6238N
100 µg

DESCRIPTION

Species Reactivity	Human/Feline
Specificity	Detects human and feline IL-23 p19 in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant canine IL-23 p19 is observed and approximately 30% cross-reactivity with recombinant mouse IL-23 p19 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant feline IL-23 p19 Arg26-Arg185 Accession # ABB01676
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

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 feline IL-23 p19 is 160 amino acids (aa) in length. It is a α-helical molecule that utilizes Cys80 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 feline IL-23 p19 (aa 26-185) shares 87% aa identity with human IL-23 p19.

PRODUCT SPECIFIC NOTICES

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