# Human/Feline IL-23 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6238V
100 µg

## DESCRIPTION

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| **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<br>Arg26-Arg185<br>Accession # ABB01676 |
| **Conjugate** | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.*

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

## PREPARATION AND STORAGE

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| **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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