



# Anti-Interleukin-8 monoclonal antibody, clone 8M6 (CABT-48526MS)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Mouse anti Ovine Interleukin-8 antibody, clone 8M6 recognizes ovine interleukin-8 (IL-8), also known as C-X-C motif chemokine 8. IL-8 is a 101 amino acid ~16kDa chemoattractant for neutrophils, basophils and T-cells. IL-8 is produced by several cell types including neutrophils, monocytes and macrophages in response to inflammatory stimulation. Mouse anti ovine Interleukin-8 antibody, clone 8M6 shows no cross-reactivity with ovine IL-1 beta, IL-6, MCP-1 or TNF alpha. Responses to infectious stimuli may vary among ovine species, the response to *Mannheimia haemolytica*, a causative agent of pneumonia, peritonitis and gangrenous mastitis in ovids, is exaggerated in Bighorn sheep (*Ovis canadensis*) compared to domestic sheep (*Ovis aries*) with significantly elevated IL-8 levels in response to infection. Mouse anti ovine interleukin-8 antibody, clone 8M6 has been utilized to identify cells and cell types expressing IL-8 in inflamed porcine tissue showing here also that neutrophils are the predominant cell type expressing IL-8 whilst epithelial and endothelial cells in the vicinity of inflammatory lesions also express the cytokine. Clone 8M6 neutralizes the bioactivity of ovine IL-8. Note: Removal of the preservative is recommended prior to use in functional assays. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul. ELISA This antibody may be used in sandwich ELISA assays for ovine IL-8.

Specificity	CXCL8
Immunogen	Recombinant ovine IL-8.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Sheep, Bovine, Dog, Ferret, Mink, Mustelid, Pig, Rabbit
Clone	8M6
Conjugate	Unconjugated

<b>Applications</b>	ELISA; FC; WB
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	250 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CXCL8 interleukin 8 [ Ovis aries (sheep) ]</a>
<b>Official Symbol</b>	CXCL8
<b>Synonyms</b>	CXCL8; IL8; interleukin-8; IL-8; C-X-C motif chemokine 8; chemokine (C-X-C motif) ligand 8;
<b>Entrez Gene ID</b>	<a href="#">443418</a>
<b>Protein Refseq</b>	<a href="#">NP_001009401</a>
<b>UniProt ID</b>	P36925
<b>Chromosome Location</b>	chromosome: 6
<b>Pathway</b>	Amoebiasis; Bladder cancer; Chagas disease (American trypanosomiasis); Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Hepatitis B; Hepatitis C; Influenza A;