

Product datasheet for **TA399840**

CXCL8 Rabbit Monoclonal Antibody [Clone ID: WS-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	WS-4
Applications:	ELISA, IHC, Neutralize
Reactivity:	Human, Rabbit
Modifications:	This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by immunizing BALB/c mice with human IL-8. This reshaped WS-4 antibody was generated by grafting CDRs of mouse monoclonal antibody onto human framework regions.
Specificity:	This antibody binds human IL-8, which is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. This antibody cross reacts with rabbit IL-8.

This antibody was used in the generation of a very sensitive ELISA for the detection of human IL-8 in various body fluids. The original mouse version of this antibody has a detection limit of 16 pg/ml in an ELISA. This antibody can bind both the 72 and 77 amino acid forms of IL-8 produced by cultured human cells and cell lines stimulated with IL-1 (PMID: 1593135). The neutralization activity of this antibody towards IL-8 was studied in a rabbit model of severe acute pancreatitis. It was reported that this antibody can reduce the acute lung injury, presumably through inhibition of circulating IL-8 and TNF-alpha, and CD11b/CD18 in lung tissue (PMID: 10189850). This antibody can neutralize rabbit IL-8 in vivo (PMID: 8347559). The effect of neutralizing antibody on IL-8 enhanced infectious cytomegalovirus (CMV) production was examined and it was reported that this antibody reduced virus production nearly to unstimulated levels at 1,000 ng/ml (PMID: 7933146). This antibody was used in the immunohistochemical staining and immuno-localization of IL-8 in tissue sections taken from intestinal loops of patients infected with either M90T or BS176 strains of *Shigella flexneri* (PMID: 10024597).



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Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Database Link:	P10145
Synonyms:	C-X-C motif chemokine 8; Chemokine (C-X-C motif) ligand 8; CXCL8; Emotakin; GCP-1; Granulocyte chemotactic protein 1; IL8; Interleukin-8; MDNCF; MONAP; Monocyte-derived neutrophil-activating peptide; Monocyte-derived neutrophil chemotactic factor; NAP-1; Neutrophil-activating protein 1; Protein 3-10C; T-cell chemotactic factor