

# Rat GRO/CINC

CXC Chemokine (IL-8 Family)

Growth Related Oncogene (GRO) /Cytokine-induced neutrophil chemo attractant 1 (CINC-1) was originally purified from media conditioned by IL-1  $\beta$  stimulated rat kidney epithelioid cells (NRK-52E). Amino acid sequence that encodes for rat CINC-1 was identified in 1989 by Watanabe's group at Toyama Medical and Pharmaceutical University. CINC-1 is a member of the alpha (CXC) subfamily of chemokines. Three additional rat CXC chemokines (CINC-2  $\alpha$ , CINC-2  $\beta$ , CINC-3/MIP-2) have been identified. The protein sequence of CINC-1 is 63 - 67% identical to that of CINC-2  $\alpha$ , CINC-2  $\beta$ , CINC-3/MIP-2. In addition, GRO  $\alpha$ , GRO  $\beta$  and GRO  $\gamma$  is sharing 68%, 71% and 69%, identity with CINC-1. This has been suggested that CINC-1 is the rat counterpart of human GROs.

## Correlation between human and rodent CXC chemokines

	Human	Rat	Mouse
CXC Chemokines	IL-8	Unknown	Unknown
	GRO $\alpha$ (MGSA)	CINC-1	KC
		CINC-2 $\alpha$	Unknown
	GRO $\beta$	CINC-2 $\beta$	
GRO $\gamma$	CINC-3	MIP-2	

IL : Interleukine  
 GRO : Growth Related Oncogene  
 CINC : Cytokine-Induced Neutrophil Chemoattractant  
 KC : Keratinocyte-derived Cytokine  
 MIP-2 : Macrophage Inflammatory Protein-2

## Rat GRO/CINC ELISA Kits

Code No.	Name	Volume	Assay range	Sample Volume	Assay Time	Specificity and Comments
27162	Rat GRO/CINC-1 ELISA Kit	96 well	4.69 ~ 300 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr or 4 $^{\circ}$ C, over night 2nd Reaction 37 $^{\circ}$ C, 30min	Not cross react with Rat GRO/CINC-2 $\alpha$ , -2 $\beta$ , and -3
17170	Rat GRO/CINC-2 $\alpha$ ELISA Kit	96 well	9.38 ~ 600 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr 2nd Reaction 37 $^{\circ}$ C, 30min	Not cross react with Rat GRO/CINC-1, -2 $\beta$ , and -3
17166	Rat GRO/CINC-2 $\beta$ ELISA Kit	96 well	9.38 ~ 600 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr 2nd Reaction 37 $^{\circ}$ C, 30min	Not cross react with Rat GRO/CINC-1, -2 $\alpha$ , and -3
27163	Rat GRO/CINC-3 ELISA Kit	96 well	4.69 ~ 300 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr or 4 $^{\circ}$ C, over night 2nd Reaction 4 $^{\circ}$ C, 30min	Not cross react with Rat GRO/CINC-1, -2 $\alpha$ , and -2 $\beta$

## Related ELISA Kits

Code No.	Name	Volume	Assay range	Sample Volume	Assay Time	Specificity and Comments
27139	Human GRO $\alpha$ /MGSA ELISA Kit	96 well	3.13 ~ 200 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr 2nd Reaction 37 $^{\circ}$ C, 30min	Not cross react with Human GRO $\beta$ and $\gamma$
27142	Human GRO $\beta$ ELISA Kit	96 well	19.53 ~ 2,500 pg/mL	100 $\mu$ L	1st Reaction 4 $^{\circ}$ C, over night 2nd Reaction 37 $^{\circ}$ C, 30min	Not cross react with Human GRO $\alpha$ and $\gamma$
27137	Mouse KC ELISA Kit	96 well	23.44 ~ 1,500 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr 2nd Reaction 37 $^{\circ}$ C, 30min	Not cross react with Mouse MIP-2
27138	Mouse MIP-2 ELISA Kit	96 well	1 ~ 64 pg/mL	100 $\mu$ L	1st Reaction 37 $^{\circ}$ C, 1Hr or 4 $^{\circ}$ C, over night 2nd Reaction 4 $^{\circ}$ C, 30min	Not cross react with Mouse KC

### Manufacturer :

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Rat GRO/CINC Antidodies							*F/P: Formalin fixed Paraffin embedded
Code No.	Name		Volume	IHC (*F/P)	WB	Specificity and comments	
18251	Anti-Rat	GRO/CINC-1	Rabbit IgG Affinity Purify	500 ug	○ 10-20 ug/mL	○ 10-20 ug/mL	Cross-reacts with Mouse KC.
18256	Anti-Rat	GRO/CINC-1 (C)	Rabbit IgG Affinity Purify	100 ug	—	○ 2-5 ug/mL	Inhibit migration of neutrophil (up to 6 nM) at 10 ug/mL
10071	Anti-Rat	GRO/CINC-1 (C) (6G2)	Mouse IgM MoAb	500 ug	—	○ 5-10 ug/mL	—
18257	Anti-Rat	GRO/CINC-1 (N)	Rabbit IgG Affinity Purify	100 ug	○ 2-5 ug/mL	○ 2-5 ug/mL	Inhibit migration of neutrophil (up to 6 nM) at 10 ug/mL
10072	Anti-Rat	GRO/CINC-1 (N) (2A9)	Mouset IgG MoAb	500 ug	—	○ 2-5 ug/mL	Inhibit migration of neutrophil at 100 ug/mL
18275	Anti-Rat	GRO/CINC-2 α (C)	Rabbit IgG Affinity Purify	100 ug	—	○ 1 ug/mL	—
18276	Anti-Rat	GRO/CINC-2 β (C)	Rabbit IgG Affinity Purify	100 ug	—	○ 2-5 ug/mL	—
18277	Anti-Rat	GRO/CINC-2 α , -2 β (N)	Rabbit IgG Affinity Purify	100 ug	—	○ 2-5 ug/mL	—
18291	Anti-Rat	GRO/CINC-3	Rabbit IgG Affinity Purify	500 ug	—	○ 2-5 ug/mL	Cross-reacts with Mouse MIP-2.
18292	Anti-Rat	GRO/CINC-3 (C)	Rabbit IgG Affinity Purify	100 ug	—	○ 2-5 ug/mL	—

Related Antibodies							*F/P: Formalin fixed Paraffin embedded
Code No.	Name		Volume	IHC (*F/P)	WB	Specificity and comments	
18356	Anti-Human	GRO α /MGSA (C)	Rabbit IgG Affinity Purify	100 ug	○ 5-10 ug/mL	○ 2-5 ug/mL	Not cross-react to Human GRO β
18365	Anti-Human	GRO β (C)	Rabbit IgG Affinity Purify	100 ug	○ 5 ug/mL	○ 5 ug/mL	Not cross-react to Human GRO α
18361	Anti-Mouse	KC	Rabbit IgG ProteinA Purify	500 ug	○ 10-20 ug/mL	○ 10-20 ug/mL	Not cross-react to Human IL-8, GRO α
18366	Anti-Mouse	KC (C)	Rabbit IgG Affinity Purify	100 ug	○ 5 ug/mL	○ 1-5 ug/mL	Not cross-react to Human IL-8, GRO α
18367	Anti-Mouse	KC (N)	Rabbit IgG Affinity Purify	100 ug	○ 5 ug/mL	○ 1-5 ug/mL	Not cross-react to Human IL-8, GRO α
18296	Anti-Mouse	MIP-2	Rabbit IgG ProteinA Purify	100 ug	—	○ 2-5 ug/mL	Cross-reacts with Rat GRO/CINC-3
18297	Anti-Mouse	MIP-2 (C)	Rabbit IgG Affinity Purify	100 ug	—	○ 2-5 ug/mL	Cross-reacts with Mouse MIP-2

#### References :

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