

DESCRIPTION

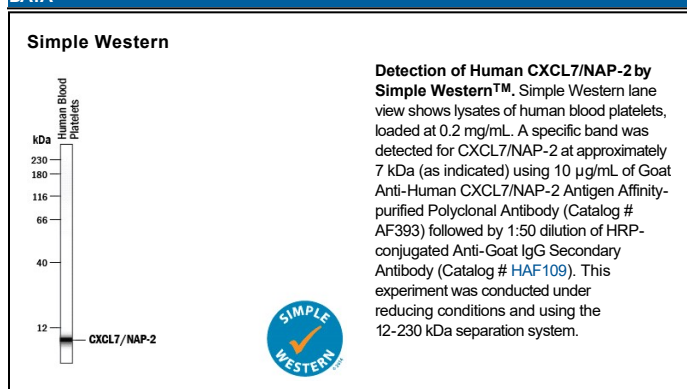
Species Reactivity	Human
Specificity	Detects human CXCL7/NAP-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant mouse (rm) MIP-2 is observed, 10% cross-reactivity with recombinant human (rh) GRO α , rhIL-8, rhCINC-2 α , and rhGRO β is observed, and 5% cross-reactivity with recombinant rat (rr) CINC-1, rrCINC-2 β , rhGCP-2, rmKC, rhMIG, and rhGRO β is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CXCL7/NAP-2 Ala59-Asp128 Accession # P02775
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 μ g/mL	Recombinant Human CXCL7/NAP-2 (Catalog # 393-NP)
Simple Western	10 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Neutrophil Activating Peptide 2 (NAP-2), Connective Tissue Activating Protein III (CTAP-III) and β -thromboglobulin (β -TG), are proteolytically processed carboxyl-terminal fragments of platelet basic protein (PBP) which is found in the alpha-granules of human platelets. NAP-2 is a member of the CXC chemokines. Similar to other ELR domain containing CXC chemokines such as IL-8 and the GRO proteins, NAP-2 has been shown to bind CXCR2 and to chemoattract and activate neutrophils. Although CTAP-III, β -TG and PBP represent amino-terminal extended variants of NAP-2 and possess the same CXC chemokine domains, these proteins do not exhibit NAP-2 activity. It has been shown that the additional amino-terminal residues of CTAP-III masks the critical ELR receptor binding domain that is exposed on NAP-2 and may account for lack of NAP-2 activity.

References:

- Schall, T. (1994) *The Cytokine Handbook*, 2nd edition, A. Thomson, ed. Academic Press, New York, p. 419.
- Malkowski, M.G. *et al.* (1997) *J. Mol. Biol.* **266**:367.