

DESCRIPTION

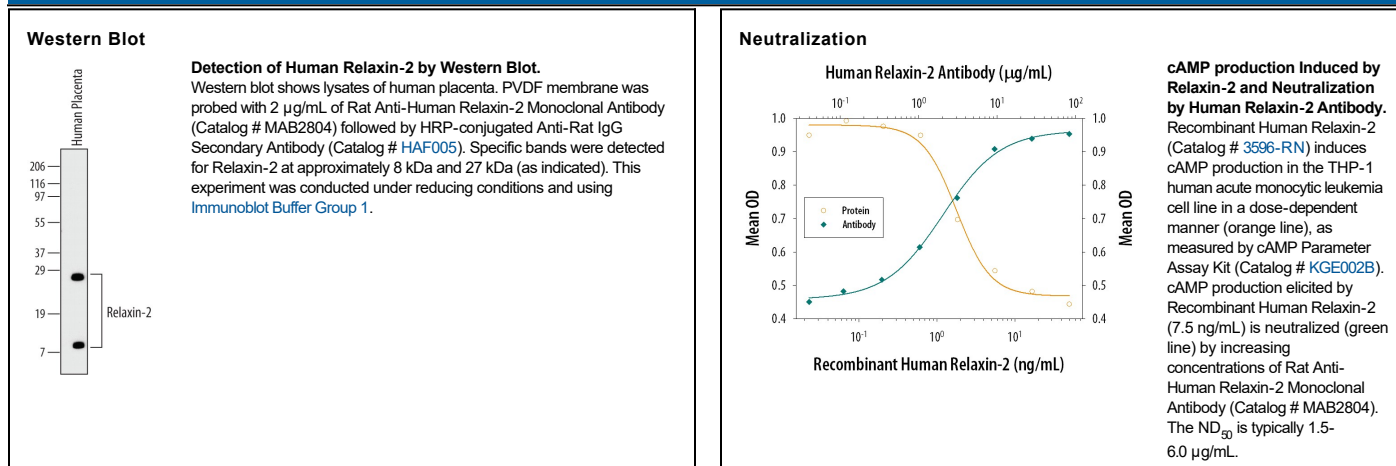
Species Reactivity	Human
Specificity	Detects both the pro and mature forms of human Relaxin-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) Relaxin-1 or rhRelaxin-3 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 349102
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Relaxin-2 Val23-Cys185 Accession # P04090
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm 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 µm 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	2 µg/mL	See Below
Neutralization	Measured by its ability to neutralize Relaxin-2-induced cAMP production in the THP-1 human acute monocytic leukemia cell line. Parsell, D. A. <i>et al.</i> (1996) J. Biol. Chem. 271 :27936. The Neutralization Dose (ND ₅₀) is typically 1.5-6.0 µg/mL in the presence of 7.5 ng/mL Recombinant Human Relaxin-2.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

Human Relaxin-2/H2 is a 6 kDa member of the insulin/relaxin gene superfamily. Relaxin-2 is synthesized as a 185 aa preprohormone that is proteolytically processed into a nonglycosylated, disulfide-linked, 53 aa mature heterodimer that contains a 29 aa B chain (aa 25-53) and a 24 aa A chain (aa 161-185). An alternate splice form of human Relaxin-2 is known that contains the B chain and an uncleaved 47 aa extension. Mature human Relaxin-2 heterodimer is 48%, 44% and 43% aa identical to rat, canine and porcine Relaxin-2, respectively.