

DESCRIPTION

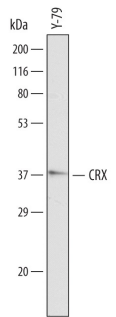
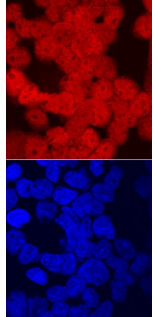
Species Reactivity	Human
Specificity	Detects human CRX in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CRX Ala166-Leu299 Accession # O43186
Formulation	Lyophilized from a 0.2 µm filtered solution 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	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human CRX by Western Blot. Western blot shows lysates of Y-79 human retinoblastoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human CRX Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7085) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CRX at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>CRX in Y-79 Human Cell Line. CRX was detected in immersion fixed Y-79 human retinoblastoma cell line using Sheep Anti-Human CRX Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7085) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

CRX (Cone Rod homeobox protein) is a 37-39 kDa member of the Otx family of paired-like homeodomain containing proteins. It is expressed in pinealocytes, cones, rods and rod bipolar cells, and promotes the transcription of photoreceptor cell proteins such as rhodopsin, IRBP and β-phosphodiesterase. Although CRX may act alone, it typically binds noncovalently to both QRX and NRL, forming a transcriptional complex. Human CRX is 299 amino acids (aa) in length. It contains one DNA-binding homeobox domain (aa 39-98). There is one isoform variant that shows a deletion of aa 146-149. Over aa 166-299, human CRX shares 97% aa identity with mouse CRX.