Human CRX Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7085

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CRX in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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 as a 0.2 µm filtered solution in PBS.

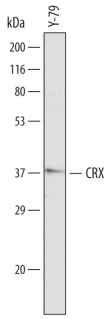
APPLICATIONS

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

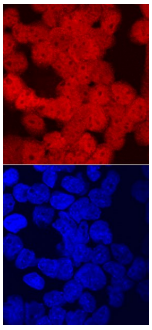
DATA

Western Blot



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.

Immunocytochemistry



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.

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.** ● 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.

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