

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CRY1 in direct ELISAs.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CRY1 Lys115-His224 Accession # Q16526
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.

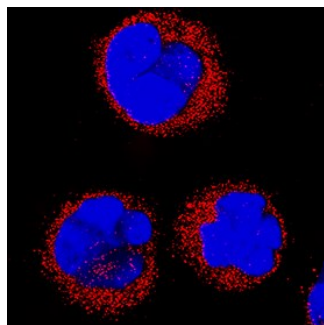
APPLICATIONS

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	0.1 µg/mL	Recombinant Human CRY1
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	0.5-15 µg/mL	Immersion fixed paraffin-embedded sections of human testis and mouse kidney.

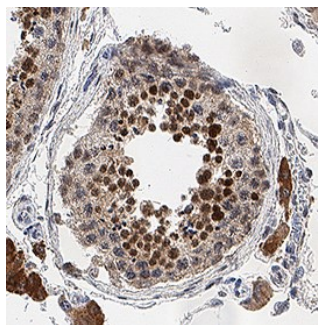
DATA

Immunocytochemistry



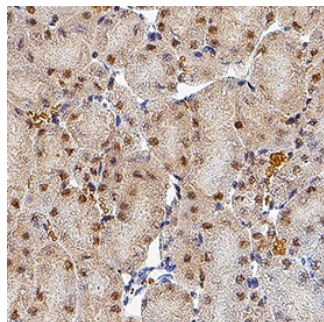
CRY1 in MOLT-4 Human Cell Line. CRY1 was detected in immersion fixed MOLT-4 human acute lymphoblastic leukemia cell line using Goat Anti-Human/Mouse CRY1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3764) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

Immunohistochemistry



Detection of CRY1 in Human Testis. CRY1 was detected in immersion fixed paraffin-embedded sections of human testis using Goat Anti-Human/Mouse CRY1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3764) at 0.5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus and cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

Immunohistochemistry



Detection of CRY1 in Mouse Kidney. CRY1 was detected in immersion fixed paraffin-embedded sections of mouse kidney using Goat Anti-Human/Mouse CRY1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3764) at 0.5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus and cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

CRY1 is a critical component of the circadian oscillator that represses CLOCK:BMAL1 mediated transcription when translocated into the nucleus. It is a member of the DNA photolyase family but has no photolyase activity. Over the region used as immunogen, human and mouse CRY1 share 94% amino acid sequence homology.