Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-101-293

ARTEMIS Antibody

Overview

Description:	Anti-Artemis (DCLRE1C DNA cross-link repair 1C) (GOAT) Antibody - 600-101-293
Item No.:	600-101-293
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Artemis has a role in T and B lymphocyte immunodeficiency and in predisposition to lymphoma through the NHEJ pathway of DNA repair. DNA-PKcs regulates Artemis by both phosphorylation and complex formation to permit enzymatic activities that are critical for the hairpin-opening step of V(D)J recombination and for the 5' and 3' overhang processing in non-homologous DNA end joining.
Synonyms:	goat anti-Artemis Antibody, A-SCID antibody, A SCID protein antibody, protein Artemis antibody, DCLRE1C antibody, DCLRE1C, DNA cross link repair 1C antibody, ASCID, SCIDA, SNM1C
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DCLRE1C
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding an internal region of Human ARTEMIS (DCLRE1C DNA cross-link repair 1C).

Purity/Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. This antibody detects a band of the appropriate size in a number of different cell lines. However, it does not detect a band in cell lines that do not express artemis, such as the cell line CJ (see figure) and in an hTERT line (not shown).
Relevant Links:	• UniProtKB - Q96SD1 • NCBI - 76496495 • GeneID - 64421

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, immunohistochemistry and western blotting. Reactivity in other immunoassays is unknown. This antibody detects a band of approximately 90 kDa (predicted molecular weight: 78 kDa).
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IHC:	1:1,000
WB:	1:500 - 1:2,000

Formulation

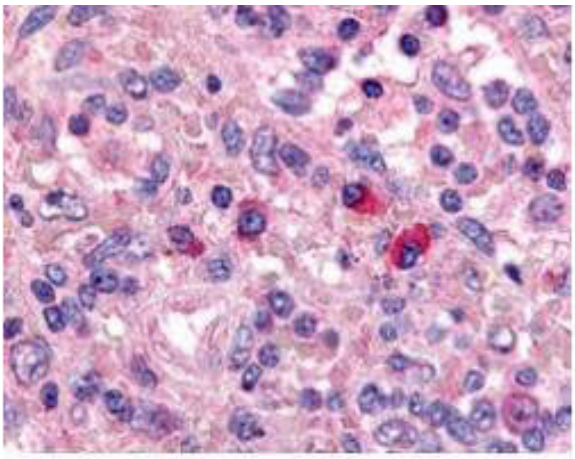
Physical State:	Liquid (sterile filtered)
Concentration:	1.2 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

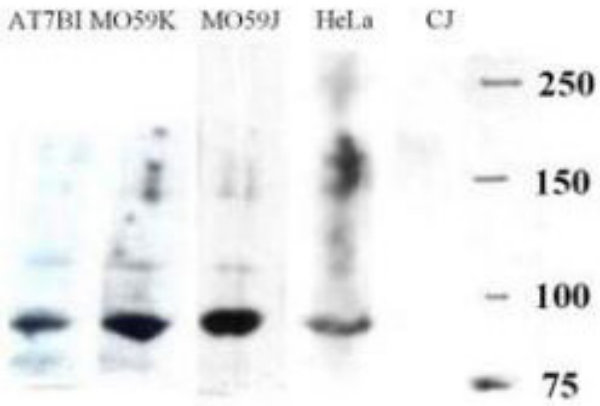
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Rockland's Affinity Purified anti-Artemis antibody was used at a 1:1000 dilution to detect Artemis by immunohistochemistry in human spleen. Positive staining of T cells and B lymphocytes is observed in thymus, lymph nodes and spleen. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Alan Yen, LifeSpanBiosciences, Seattle, WA.



Western Blot
Western blot using Rockland's Goat-anti-Artemis was used to detect Artemis. Lane 1: AT7BI cell lysates. Lane 2: MO59K cell lysates. Lane 3: MO59J cell lysates. Lane 4: HeLa cell lysates (p/n W09-000-364). Lane 5: CJ cell lysates. CJ is an Artemis deficient cell line and so no band is visible. Primary Antibody at 1:500 dilution. Signal was detected using standard techniques.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.