

DCLRE1C

Rabbit Anti-Human DNA Cross-Link REpair 1C/Artemis Clone Poly6198 pAb

Catalog No.	CS114398 CS114399	Quantity:	50 µl 200 µl
Alternate Names:	A-SCID, DCLREC1C, FLJ11360, FLJ36438, RS-SCID, SCIDA, SNM1C, artemis protein, severe combined immunodeficiency, type a (Athabaskan)		
Description:	Artemis is a widely expressed 78 kD protein involved in non-homologous end joining. This protein has been reported to be involved in DNA double-strand break repair and the processing of hairpin coding ends during VDJ recombination. Artemis has endonuclease and exonuclease activity and has been shown to be mutated in human severe combined immune deficiency disorder (T-B- radiosensitive SCID). Artemis is phosphorylated by DNA-PKcs; phosphorylation regulates intrinsic endonuclease and exonuclease activity. Artemis has been shown to form a complex with DNA-PKcs. The Poly6198 antibody has been shown to be useful for Western blotting of the human Artemis protein.		
Structure:	Protein involved in non-homologous end joining, predicted molecular weight approximately 78 kD.		
Gene ID:	64421		
Distribution:	Widely expressed		
Function:	Involved in DNA double-strand break repair and the processing of hairpin coding ends during VDJ recombination. Has endonuclease and exonuclease activity. Mutated in human severe combined immune deficiency disorder (T-B- radiosensitive SCID).		
Host:	Rabbit		
Immunogen:	Peptide-KLH (KGLRAPTLKRRLE)		
Isotype:	IgG		
Clone:	Poly6198		
Regulation:	Phosphorylation by DNA-PKcs regulates intrinsic endonuclease and exonuclease activity.		
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	The antibody was purified by antigen-affinity chromatography.		
Modification:	Phosphorylation		



Reactivity: Human

Applications: Western Blot, IF

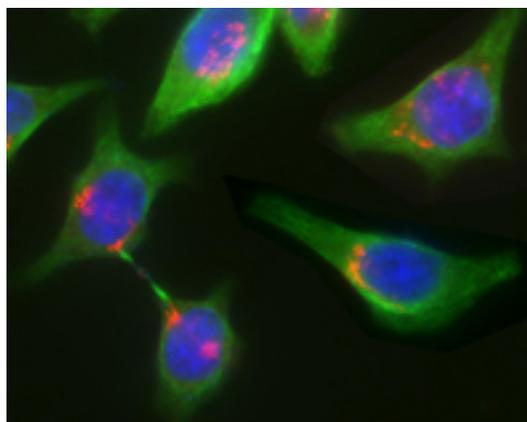
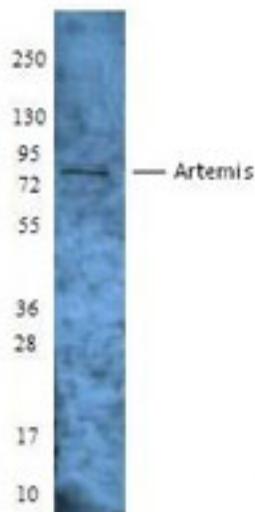
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 μ l per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a dilution range of 1:100~1:400. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: Upon receipt, store frozen at -20° C.

Interaction: Forms a complex with DNA-PKcs

MOLT-4 cell nuclear extracts were resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-Artemis antibody (clone Poly6198). Proteins were visualized using a donkey anti-rabbit-IgG secondary conjugated to HRP and chemiluminescence detection.

Immunofluorescent microscope analysis of HeLa cells using anti-Artemis polyclonal antibody (poly6198) (red). α -tubulin (clone 10D8) has been labeled with green and nuclei were stain with DAPI (blue).



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