abcam

Product datasheet

Anti-Artemis antibody ab14289

2 References 1 图像

概述

产品名称	Anti-Artemis抗体
描述	鸡多克隆抗体to Artemis
宿主	Chicken
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human
免疫原	Synthetic peptide corresponding to Human Artemis aa 316-577 (C terminal). Sequence: QTPGCCRAECMQSSRFTNFVDCEESNSESEEEVGIPASLQGDLGSVLHLQ KADGDVPQWE VFFKRNDEITDESLENFPSSTVAGGSQSPKLFSDSDGE STHISSQNSSQSTHITEQGSQG WDSQSDTVLLSSQERNSGDITSLDKA DYRPTIKENIPASLMEQNVICPKDTYSDLKSRDK DVTIVPSTGEPTTL SSETHIPEEKSLLNLSTNADSQSSSDFEVPSTPEAELPKREHLQYL YE KLATGESIAVKKRKCSLLDT Run BLAST with Run BLAST with
常规说明	During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: None Constituents: PBS
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgY

应用

Our Abpromise guarantee covers the use of **ab14289** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/1000 - 1/2000. Predicted molecular weight: 69 kDa.

靶标

功能

Required for V(D)J recombination, the process by which exons encoding the antigen-binding domains of immunoglobulins and T-cell receptor proteins are assembled from individual V, (D), and J gene segments. V(D)J recombination is initiated by the lymphoid specific RAG endonuclease complex, which generates site specific DNA double strand breaks (DSBs). These DSBs present two types of DNA end structures: hairpin sealed coding ends and phosphorylated blunt signal ends. These ends are independently repaired by the non homologous end joining (NHEJ) pathway to form coding and signal joints respectively. This protein exhibits single-strand specific 5'-3' exonuclease activity in isolation and acquires endonucleolytic activity on 5' and 3' hairpins and overhangs when in a complex with PRKDC. The latter activity is required specifically for the resolution of closed hairpins prior to the formation of the coding joint. May also be required for the repair of complex DSBs induced by ionizing radiation, which require substantial end-processing prior to religation by NHEJ.

组织特异性

Ubiquitously expressed, with highest levels in the kidney, lung, pancreas and placenta (at the mRNA level). Expression is not increased in thymus or bone marrow, sites of V(D)J recombination.

疾病相关

Defects in DCLRE1C are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-negative/NK-cell-positive with sensitivity to ionizing radiation (RSSCID) [MIM:602450]. SCID refers to a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients with SCID present in infancy with recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Individuals affected by RS-SCID show defects in the DNA repair machinery necessary for coding joint formation and the completion of V(D)J recombination. A subset of cells from such patients show increased radiosensitivity.
Defects in DCLRE1C are the cause of severe combined immunodeficiency Athabaskan type (SCIDA) [MIM:602450]. SCIDA is a variety of RS-SCID caused by a founder mutation in Athabascan-speaking native Americans, being inherited as an autosomal recessive trait with an estimated gene frequency of 2.1% in the Navajo population. Affected individuals exhibit clinical symptoms and defects in DNA repair comparable to those seen in RS-SCID.
Defects in DCLRE1C are a cause of Omenn syndrome (OS) [MIM:603554]. OS is characterized by severe combined immunodeficiency associated with erythrodermia, hepatosplenomegaly, lymphadenopathy and alopecia. Affected individuals have elevated T-lymphocyte counts with a restricted T-cell receptor (TCR) repertoire. They also generally lack B-lymphocytes, but have normal natural killer (NK) cell function (T+ B- NK+).

序列相似性

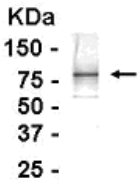
Belongs to the DNA repair metallo-beta-lactamase (DRMBL) family.

翻译后修饰

Phosphorylation on undefined residues by PRKDC may stimulate endonucleolytic activity on 5' and 3' hairpins and overhangs. PRKDC must remain present, even after phosphorylation, for

	efficient hairpin opening. Also phosphorylated by ATM in response to ionizing radiation (IR) and by ATR in response to ultraviolet (UV) radiation.
细胞定位	Nucleus.

图片



Western blot - Anti-Artemis antibody (ab14289)

Western Blot Test: E coli-derived fusion protein as test antigen. Affinity-purified IgY dilution: 1/2000, Goat anti-IgY-HRP dilution: 1/1000. Colorimetric method for signal development. Arrow points to DCLRE1C fusion protein. Western Blot Test: E coli-derived fusion protein as test antigen. Affinity-purified IgY dilution: 1/2000, Goat anti-IgY-HRP dilution: 1/1000. Colorimetric method for signal development. Arrow points to DCLRE1C fusion protein.

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