

CD7 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1805a

Product Information

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|--------------------------|---|
| Application | WB, IHC, FC, E |
| Primary Accession | P09564 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone Names | 5B10E3 |
| Isotype | IgG1 |
| Calculated MW | 25409 |
| Description | This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development. |
| Immunogen | Purified recombinant fragment of human CD7 (AA: 72-175) expressed in E. Coli. |
| Formulation | Purified antibody in PBS with 0.05% sodium azide |

Additional Information

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|--------------------|--|
| Gene ID | 924 |
| Other Names | T-cell antigen CD7, GP40, T-cell leukemia antigen, T-cell surface antigen Leu-9, TP41, CD7, CD7 |
| Dilution | WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1:10~50 E~~1/10000 |
| Storage | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | CD7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-----------------|---|
| Name | CD7 |
| Function | Transmembrane glycoprotein expressed by T-cells and natural killer (NK) cells and their precursors (PubMed: 7506726). Plays a costimulatory role in T-cell activation upon binding to its ligand K12/SECTM1 (PubMed: 10652336). |

In turn, mediates the production of cytokines such as IL-2 (PubMed:[1709867](#)). On resting NK-cells, CD7 activation results in a significant induction of interferon-gamma levels (PubMed:[7506726](#)).

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Expressed on T-cells and natural killer (NK) cells and their precursors.

Background

This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

References

1.Mol Cancer. 2010 Feb 22;9:41. 2.J Hematol Oncol. 2010 Apr 14;3:15.

Images

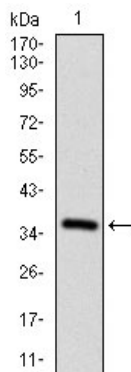


Figure 1: Western blot analysis using CD7 mAb against human CD7 recombinant protein. (Expected MW is 36.6 kDa)

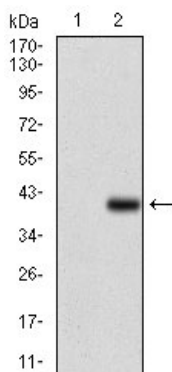


Figure 2: Western blot analysis using CD7 mAb against HEK293 (1) and CD7 (AA: 72-175)-hIgGfc transfected HEK293 (2) cell lysate.

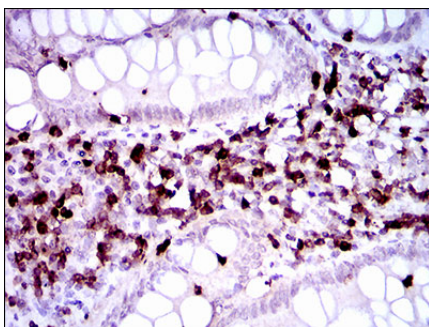


Figure 3: Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using CD7 mouse mAb with DAB staining.