

CD8- α (22-182): sc-4265 WB

BACKGROUND

The T cell receptor (TCR) is a heterodimer composed of either α and β or γ and δ chains. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on T helper and T cytotoxic cells that can be distinguished by their expression of CD4 and CD8. T helper cells express CD4 proteins and T cytotoxic cells display CD8. CD8, also designated Leu 2 or T8, is a 32 kDa cell surface glycoprotein. It is a two chain complex (α - α or α - β) receptor that binds class I MHC molecules presented by the antigen-presenting cell (APC). A primary function of CD8 is to facilitate antigen recognition by the TCR and to strengthen the avidity of the TCR-antigen interactions. An additional role for CD8-expressing T cells may be to maintain low levels of HIV expression.

REFERENCES

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SOURCE

CD8- α (22-182) is expressed in *E. coli* as a 45 kDa tagged fusion protein corresponding to amino acids 22-182 representing the extracellular domain of CD8 alpha chain of human origin.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

PRODUCT

CD8- α (22-182) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 μ g in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

CD8- α (22-182) is suitable as a Western blotting control for sc-1141, sc-7188 and sc-7970.

RESEARCH USE

For research use only, not for use in diagnostic procedures.