CD5 Recombinant Protein

Catalog:	NCP0214	Host:	E.coli	Tag:	His-tag

BackGround:

CD5 is a type-I transmembrane protein belonging to the scavenger receptor cysteine-rich (SRCR) family, characterized by the presence of at least one SRCR domain of 90-110 amino acids. CD5 is expressed by all mature T cells, the B-1a subset of mature B cells, and some leukemic B cells. Its expression is increased in regulatory T and B cells (Tregs/Bregs). Anergic T and B cells also have elevated CD5 expression. Elevated levels of CD5 are also found in many autoimmune disorders. CD5 is associated with the T cell receptor (TCR) and negatively modulates T cell activation and differentiation. CD5 expression on the tumor infiltrating T lymphocytes is inversely correlated with their antitumor activity. Recently it was reported that CD5 directly binds to IL6 and can mediate downstream signaling. CD5+ B cells promote tumor growth in animal models. Reagents targeting CD5 have been actively pursued as therapeutic interventions for cancer and other conditions.

Product:

PBS, 4M Urea, PH7.4

Molecular Weight:

~38kDa

Swiss-Prot:

P06127

Purification&Purity:

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
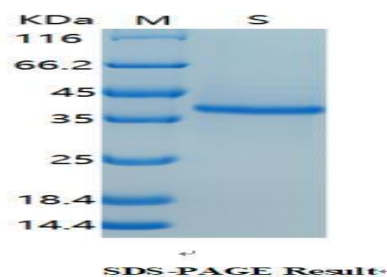
Restriction Sites:

NdeI-XhoI

Storage&Stability:

Store at 4 ℃ short term. Aliquot and store at -20 ℃ long term. Avoid freeze-thaw cycles.

Expression Vector:

pet-22b(+)

DATA:

SDS-PAGE Result

Note:

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