

Catalog Number: Eg3839

Basic Information**Species:**
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag**Technical Specifications****Purity:**

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Rat CD8A protein Gln27-Tyr189 (Accession# P07725) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

24930

Accession:

P07725

Predicted Molecular Mass:

44.3 kDa

SDS-PAGE:

48-55 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD8A, a member of the immunoglobulin superfamily, is primarily responsible for cell-mediated immune defense and T-cell development. CD8A, as an important member of the T-cytotoxicity pathway-associated genes, may be a useful biomarker of immunotherapeutic response and immune-cell infiltration, and has been widely reported to be a potential prognostic and diagnostic marker for a variety of disorders (e.g., inflammatory disorders and tumors). Studies have shown that CD8A expression is highly correlated with tumor mutational load, key immune checkpoint genes, and several types of tumor-infiltrating immune cells, predicting effective response to immunotherapy. Recent studies suggest that CD8A may be a potential prognostic marker for triple negative breast cancer (TNBC) and may also play a role in breast cancer (BC) metastasis.

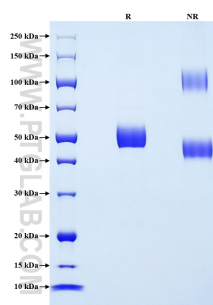
References

1. Zheng Z, et al. (2022) Cancers (Basel). 14(19):4866.
2. Chu J, et al. (2024) Front Biosci (Landmark Ed). 29(2):73.
3. Du Y, et al. (2023) J Inflamm Res. 16:1653-1669.

Synonyms

CD8, CD8a molecule

Selected Validation Data



Purity of Recombinant Rat CD8A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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