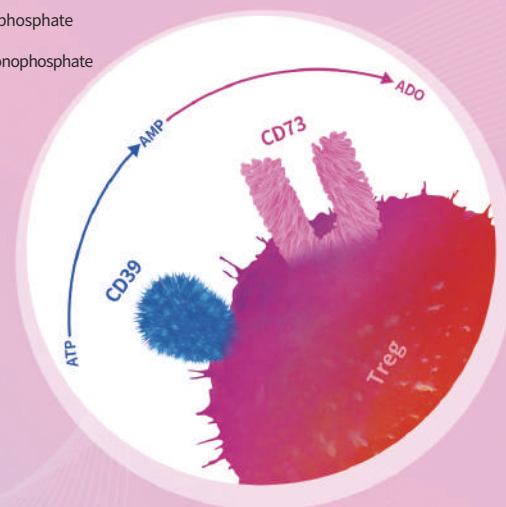


ATP Adenosine triphosphate
AMP Adenosine monophosphate
ADO Adenosine



CD73

A novel target for immunotherapy

• High enzyme activity • HPLC/ ELISA/ SPR/ BLI Verified



CD73 is known as ecto-5-prime-nucleotidase. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol (GPI) linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. CD73 works with its upstream signaling molecule CD39 to convert extracellular ATP to adenosine. Adenosine in tumor microenvironment can help regulatory T cells suppress and shut down immune activity. Tumor cells can also express CD73 which can promote the release of adenosine, thereby reducing antitumor activity.

An article published in Nature Medicine identified CD73 as a specific immunotherapeutic target to improve antitumor immune responses to immune checkpoint therapy in glioblastoma multiforme. The researchers pointed out that anti-CD73 antibodies have achieved good results in preclinical and early clinical studies, and proposed a strategy for CD73, PD-1 and CTLA-4 blocking combined therapy for glioblastoma.

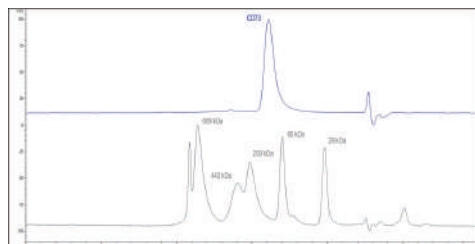
ACROBiosystems provides CD73 proteins with high enzyme activity, which can help expedite your anti-CD73 mAb drug development. The high purity and bioactivity of these CD73 proteins have been verified by HPLC, BLI, SPR and ELISA. **Protocols are provided for free. You can send email to techsupport@acrobiosystems.com to request.**

Product Features

- **Enzyme activity** >37,000 pmol/min/μg.
- **Purity** of CD73 protein is greater than 90% as determined by HPLC.
- **Bioactivity** is validated by BLI, SPR and ELISA, and protocols are available to share.

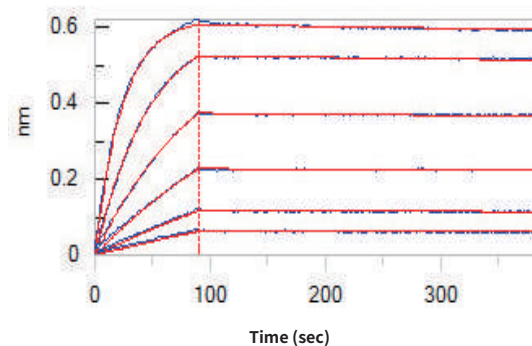
Product Validation Data

SEC-HPLC



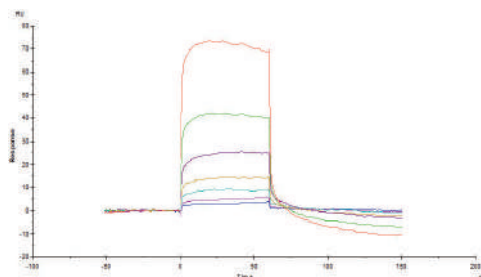
Purity of CD73 protein is greater than 90% as determined by HPLC.

BLI



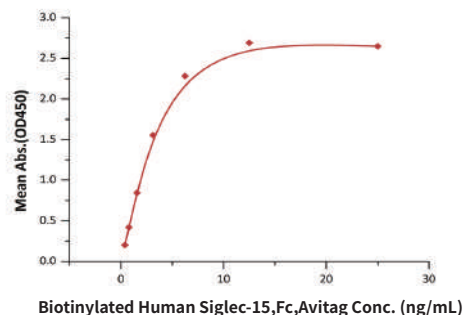
Anti-CD73 antibody were loaded on AHC Biosensor. The antibody can bind Human CD73 protein with an affinity constant of 0.179 nM as determined by BLI assay (ForteBio Octet Red96e).

SPR



Anti-CD73 mAb were captured on CM5 chip via anti-human IgG Fc antibodies surface and can bind Human CD73 with an affinity constant of 0.164 nM as determined by SPR assay (Biacore 8K).

ELISA



Human CD73 protein were coated in 96-well plate. The data showed that CD73 can bind to Anti-Human CD73 mAb with a linear range of 0.15-5 ng/mL.

Product List

Molecule	Cat. No.	Species	Host	Tag
CD73	CD3-H52H7	Human	HEK293	His tag
	CD3-H82E3	Human	HEK293	His tag & Avi tag
	CD3-M52H9	Mouse	HEK293	His tag



If you have any questions, suggestions or comments about CD73 Protein, please feel free to contact us by techsupport@acrobiosystems.com.