

Article

Fab Fragment of V_HH-based Antibody Netakimab: Crystal Structure and Modeling Interaction with Cytokine IL-17A.

Olga Kostareva ^{1,*}, Ilya Kolyadenko ¹, Andrey Ulitin ², Victoria Ekimova ², Stanislav Evdokimov ², Maria Garber ¹, Svetlana Tishchenko ¹ and Azat Gabdulkhakov ¹

¹ Institute of Protein Research RAS, Institutskaya 4, Pushchino, Moscow region 142290, Russia; kolyadenko_ilya@mail.ru (I.K.); garber@vega.protres.ru (M.G.); sveta@vega.protres.ru (S.T.); azat@vega.protres.ru (A.G.)

² CJSC Biocad, ul.Svyazi., 34-A, p. Strelna, Saint-Petersburg, Leningrad region 198515, Russia; ulitin@biocad.ru (A.U.); ekimova@biocad.ru (V.E.); evdokimov@biocad.ru (S.E.)

* Correspondence: oskostareva@gmail.com

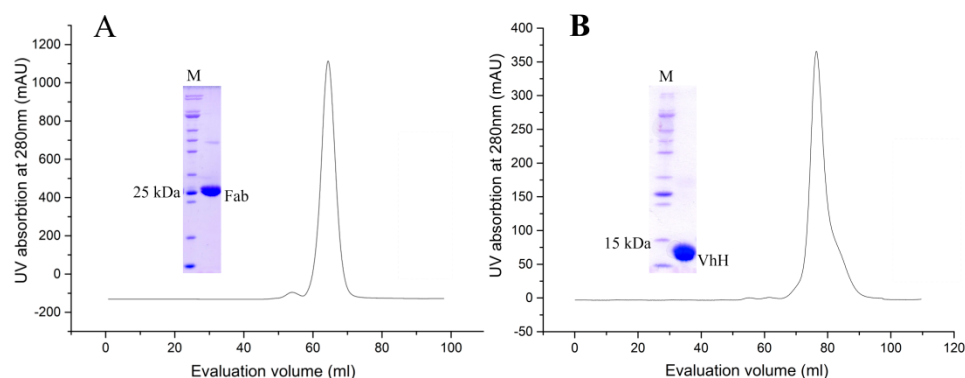


Figure S1. Elution profiles of size-exclusion chromatography and SDS-PAGE gel of purified Fab (A) and V_HH domain (B). Lane M – molecular-weight marker.

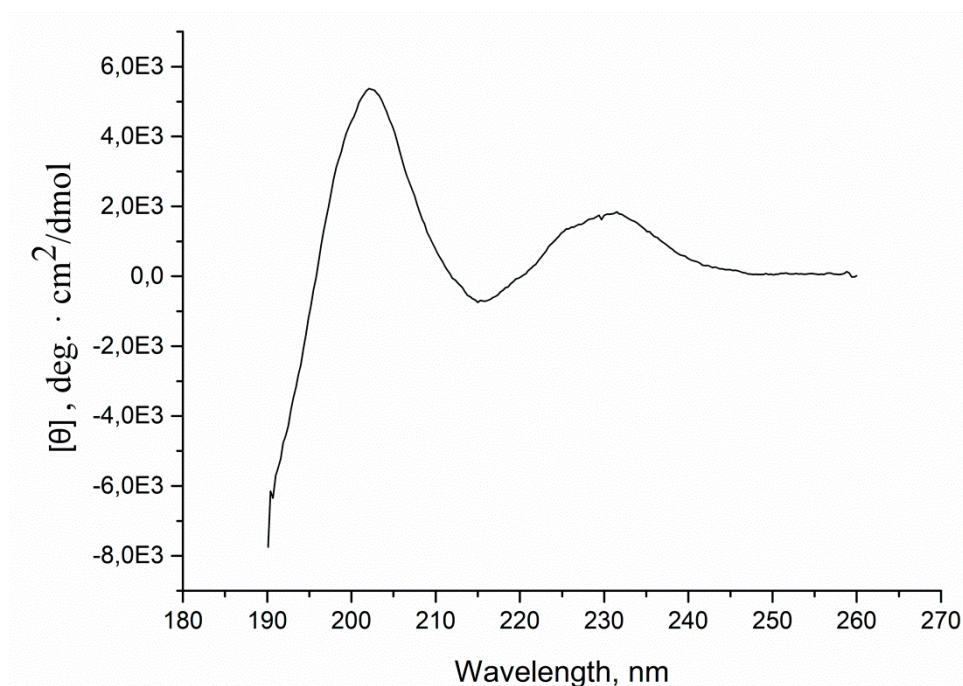


Figure S2. Circular dichroism spectrum of V_HH domain.

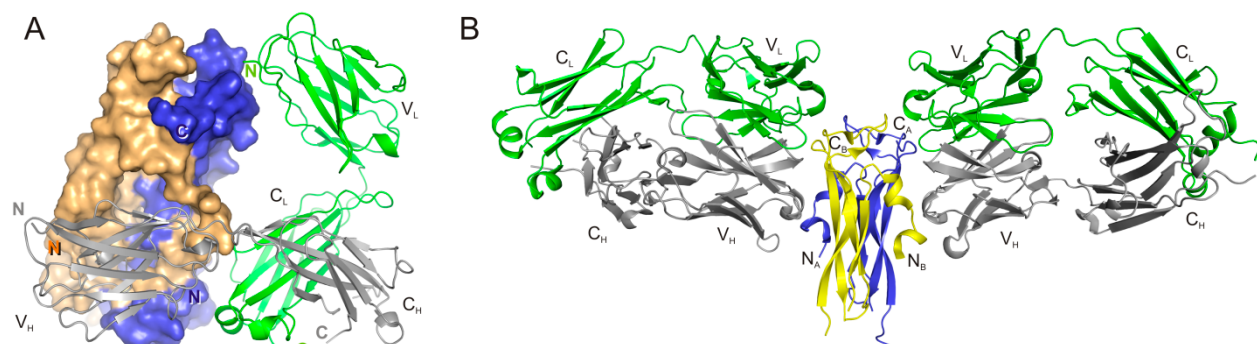


Figure S3. (A) Netakimab Fab fragment /IL-17A complex. Surface of the IL-17A dimer is shown (monomer A is dark blue, monomer B is yellow). Crystal structure of Fab fragment (light chain is colored green, heavy chain – gray). (B) Fab fragment CAT 2200/ IL-17A complex (PDB ID 2VXS). Monomer A of IL-17A is dark blue, monomer B is yellow. Light chain Fab fragment CAT 2200 of is colored green, heavy chain – gray.