

Recombinant human CTLA4 protein (Active) ab219715

画像数 5

製品の詳細

製品名	Recombinant human CTLA4 protein (Active)	
生理活性	<p>Measured by its binding ability in a functional ELISA.</p> <p>Immobilized Human B7-1, Fc Tag at 2 µg/mL (100 µl/well) can bind ab219715 with a linear range of 1-20 ng/mL.</p> <p>Immobilized Human B7-2, Fc Tag at 2 µg/mL (100 µl/well) can bind ab219715 with a linear range of 1-20 ng/mL.</p>	
精製度	> 95 % SDS-PAGE.	
エンドトキシン・レベル	< 1.000 Eu/µg	
発現系	HEK 293 cells	
アクセッション番号	<u>P16410</u>	
タンパク質長	Protein fragment	
Animal free	No	
由来	Recombinant	
生物種	Human	
配列	<p>AMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQAD</p> <p>SQVTEVCA</p> <p>ATYMMGNELTFLDSSICTGTSSGNQVNLTIQGLRAMDTGLYI</p> <p>CKVELMYP PPYYLGIGNGTQIYVIDPEPCPDSDF</p>	
予測される分子量	17 kDa including tags	
領域	37 to 162	
タグ	StrepII tag C-Terminus	
配列の追加情報	(Accession # NP_005205.2).	

特性

Our **Abpromise guarantee** covers the use of **ab219715** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
	Functional Studies

製品の状態

Lyophilized

前処理および保存

保存方法および安定性

Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituent: 95% PBS

Lyophilized from 0.22 µm filtered solution.

Note: 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

再構成

It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 1mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

関連情報

機能

Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28.

組織特異性

Widely expressed with highest levels in lymphoid tissues. Detected in activated T-cells where expression levels are 30- to 50-fold less than CD28, the stimulatory coreceptor, on the cell surface following activation.

関連疾患

Genetic variation in CTLA4 influences susceptibility to systemic lupus erythematosus (SLE) [MIM:152700]. SLE is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. SLE is thought to represent a failure of the regulatory mechanisms of the autoimmune system. Note=Genetic variations in CTLA4 may influence susceptibility to Graves disease, an autoimmune disorder associated with overactivity of the thyroid gland and hyperthyroidism. Genetic variation in CTLA4 is the cause of susceptibility to diabetes mellitus insulin-dependent type 12 (IDDM12) [MIM:601388]. A multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical features are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These derangements result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels.

Genetic variation in CTLA4 is the cause of susceptibility to celiac disease type 3 (CELIAC3) [MIM:609755]. It is a multifactorial disorder of the small intestine that is influenced by both environmental and genetic factors. It is characterized by malabsorption resulting from inflammatory injury to the mucosa of the small intestine after the ingestion of wheat gluten or related rye and barley proteins. In its classic form, celiac disease is characterized in children by malabsorption and failure to thrive.

配列類似性

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

翻訳後修飾

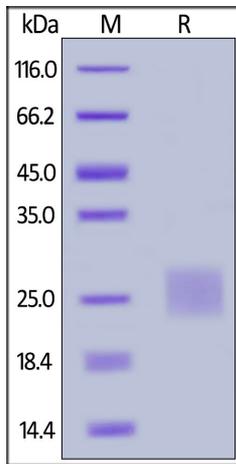
N-glycosylation is important for dimerization.

Phosphorylation at Tyr-201 prevents binding to the AP-2 adapter complex, blocks endocytosis, and leads to retention of CTLA4 on the cell surface.

細胞内局在

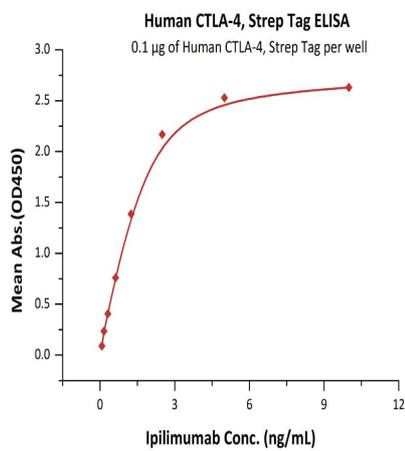
Cell membrane. Exists primarily an intracellular antigen whose surface expression is tightly regulated by restricted trafficking to the cell surface and rapid internalisation and.

画像



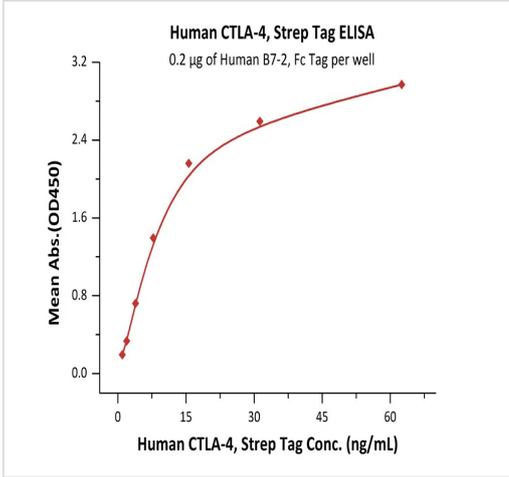
Human CTLA-4, Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SDS-PAGE - Recombinant human CTLA4 protein (Active) (ab219715)



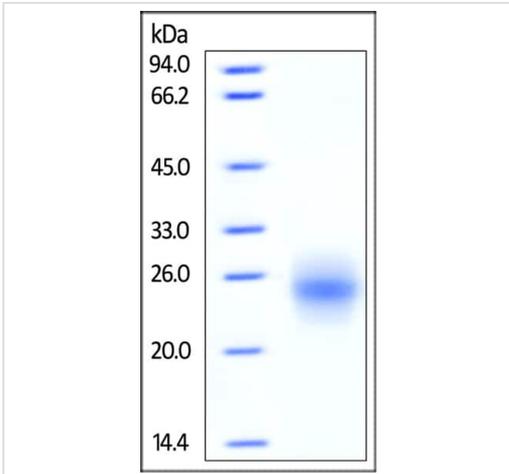
Immobilized Human CTLA-4, Strep Tag at 1 µg/mL (100 µL/well) can bind Ipilimumab with a linear range of 0.1-3 ng/mL.

Functional Studies - Recombinant human CTLA4 protein (Active) (ab219715)



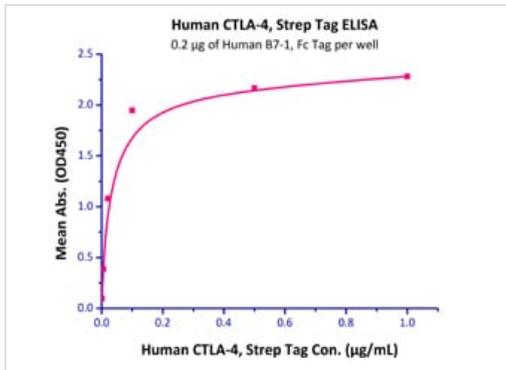
Immobilized Human B7-2, Fc Tag at 2 µg/mL (100 µL/well) can bind Human CTLA-4, Strep Tag with a linear range of 1-16 ng/mL.

Functional Studies - Recombinant human CTLA4 protein (Active) (ab219715)



SDS-PAGE analysis of reduced ab219715 stained overnight with Coomassie Blue.

SDS-PAGE - Recombinant human CTLA4 protein (Active) (ab219715)



Immobilized Recombinant Human CD80 /B7-1 Protein, With C-Fc Tag at 2 µg/mL (100 µl/well) can bind ab219715 with a linear range of 1-20 ng/mL.

Functional Studies - Recombinant human CTLA4 protein (Active) (ab219715)

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