ANTIBODIES ONLINE

Datasheet for ABIN3128140

NKG7 Protein (AA 1-165) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	NKG7
Protein Characteristics:	AA 1-165
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NKG7 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEPCRSLALF AGSLGLTSSL IALTTDFWIV ATGPHFSAHS GLWPTSQETQ VAGYIHVTQS FCILAVLWGL VSVSFLILSC IPALSAPGRG PLVSTVMAFS AALSILVAMA VYTSMRWSQT PFSQVQTFFS WSFYLGWVSF ILFLFAGCLS LGAHCRTRRA EYETL **Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • State-of-the-art algorithm used for plasmid design (Gene synthesis).

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Product Details

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	NKG7
Alternative Name:	Nkg7 (NKG7 Products)
Background:	Protein NKG7 (Natural killer cell protein 7),FUNCTION: Regulates cytotoxic granule exocytosis in effector lymphocytes, thus acting as a critical mediator of inflammation in a broad range of infectious and non-infectious diseases (PubMed:32839608). Essential for cytotoxic degranulation of natural killer (NK) cells and CD8(+) T-cells and for the activation of CD4(+) T-

Target Details

	cells following infection (PubMed:32839608). Plays a critical role in CD8(+) T-cell and NK cell-mediated cytolysis of target cells and contributes to the cytolytic activity via the perforin/granzyme pathway by enhancing exocytosis of LAMP1-carrying lytic granules (PubMed:32839608, PubMed:33911019). Contributes to NK cell-mediated control of cancer metastasis (PubMed:32839608). {ECO:0000269|PubMed:32839608, ECO:0000269|PubMed:33911019}.
Molecular Weight:	18.0 kDa
UniProt:	Q99PA5

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	Unlimited (if stored properly)

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