

Product description



Product name PEMBROLIZUMAB



Catalog number KEZ13331

Pembrolizumab: Labelled Pembrolizumab is a recombinant, stable isotope labelled IgG4-Kappa monoclonal antibody.

Pembrolizumab targets the immune checkpoint programmed death receptor-1 (PD-1) and is used to treat a number of cancers.

Similar product: Nivolumab, Ipilimumab

mAb sequence

Heavy chain PEMBROLIZUMAB

QVQLVQSGVEVKKPGASVKVSKASGYFTNYYMYWVRQAPGQGLEWMGGINPSNGGTNFNEKFKNRVTLTDSSTTTAYMELKSLQFDD
TAVYYCARRDYRFDMGFDYWGQGTTVTVSSASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSVHTFPAVLQSSGLY
SLSSVTVPSSSLGKTYTCNVDHKPSNTKVDKRVESKYGPPCPPAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVDSQEDPEVQFNW
YVDGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVK
GFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMEALHNHYTQKLSLSLGLK

Light Chain PEMBROLIZUMAB

EIVLTQSPATLSLSPGERATLSCRASKGVSTSGYSYLHWYQQKPGQAPRLLIYLAYLESGVPARFSGSGSDFTLTISLLEPEDFAVYYCQHSRD
LPLTFGGGKVEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKSTYLSSTLTLSKADYEK
HKVYACEVTHQGLSSPVTKSFNRGEC

Product features and protocols

Key features

- 1** Purity >95% as determined by SDS-PAGE
- 2** Labelling **Arg-¹³C₆, ¹⁵N₄ | Lys-¹³C₆, ¹⁵N₂**
- 3** Isotopic incorporation >98% as determined by LC-MS/MS analysis of digested SIL-mAb

Other features

Expression System	CHO cell line
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	Lyophilized : 1.55 mg/mL Histidine-HCl 7 % Sucrose pH 5.5

Product preparation

For product preparation we recommend the following steps:

- Briefly centrifuge the tube before opening
- Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg)
- Vortex gently to insure complete dissolution
- Wait 15 minutes at Room temperature before proceeding further
- Vortex gently again and centrifuge briefly

Product storage

The product is lyophilized and shipped at room temperature.

Store at -80 °C upon receipt.

After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles

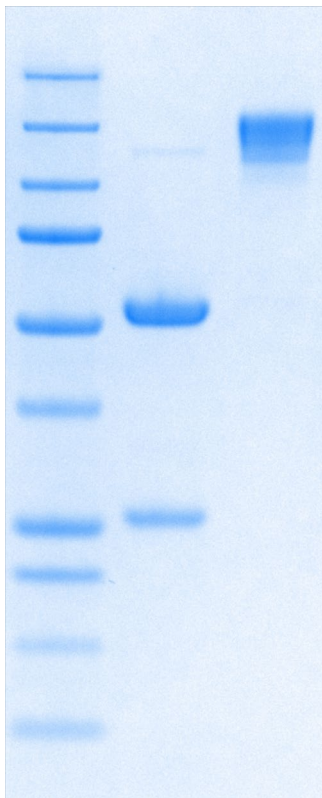
How to use our product



SIL mAbs allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



Supporting information



Pembrolizumab : KEZ13331

SDS-PAGE gel analysis in Reducing/Heated conditions (RH) (Left) and non-reducing/ non heated conditions (NR/NH) (right). Stained with Coomassie blue

References

1. G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363



The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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