



Product name DURVALUMAB
Labelled standard



Catalog number IMU05501

Product description

Labelled Durvalumab is a recombinant, full length stable isotope labelled monoclonal antibody designed for use as an internal standard for quantitative analysis of Durvalumab in plasma samples. Durvalumab targets the immune checkpoint programmed death-ligand 1 (PD-L1) and is used to treat a number of cancers

Similar products: Labelled Durvalumab-like, Labelled Nivolumab-like, Labelled Ipilimumab-like, Labelled Pembrolizumab-like

mAb sequence

Heavy chain

EVQLVESGGGLVQPGGSLRLSCAASGFTFSRYWMSWVRQAPGKGLEWVANIKQDGSEKYYVDSVKGRFTISRDNAKNSLYLQMNSLRAE
DTAVYYCAREGGWFGELAFDYWGQGLTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSG
SGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKRVPEPKSCDKTHTCPPCPAPEFEGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHED
PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPASIEKTIKAKGQPREPQVYTLPPSREEMTKN
QVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSSFFLYSKLTVDKSWQQGNVFSCSVMHEALHNHYTQKLSLSLSPGK

Light Chain

EIVLTQSPGTLSPGERATLSCRASQRVSSSYLAWYQQKPGQAPRLLIYDASSRATGIPDRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGS
L PWTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDYSLSTLTKADYE
KHKVYACEVTHQGLSSPVTKSFNRGEC

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	Mammalian cells
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	5 mM Histidine pH 6 1% trehalose 0.002% Polysorbate 80

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 ambient 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

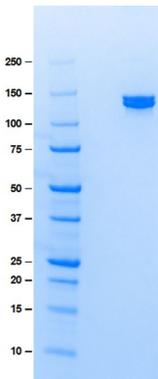
How to use our product



SIL mAbs are used as an internal standards by addition at the start of a sample preparation workflow. Both Labeled and target therapeutic mAbs will be processed throughout the entire analytical procedure controlling for variability caused by pre-analytical treatments or incomplete enzymatic digestion (1).



Supporting information



SDS-PAGE gel analysis of DURVALUMAB protein in non-reducing/ non heated conditions (NR/NH) Stained with Coomassie blue

References

1. D. Lebert, G.Picard, et al. Absolute and multiplex quantification of antibodies in serum using PSAQ™ standards and LC-MS/MS, Bioanalysis. 2015, 7, 1237-51.



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

Legal

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