

Trastuzumab anti-Her2 mAb Control

Product Code: CM51001

Amount: 100 µg (micrograms)

Product Description

Trastuzumab is a humanized IgG1κ monoclonal antibody that specifically binds to the extracellular domain of human epidermal growth factor receptor 2 (HER2/ErbB2). Trastuzumab is the active antibody in Herceptin® and forms the antibody component of HER2-targeted antibody drug conjugates such as ado-trastuzumab emtansine and trastuzumab deruxtecan.

This research-use-only product is intended for use as a quantitative or qualitative control material in assays such as ELISA, flow cytometry, immunofluorescence (IF), immunohistochemistry (IHC), immunoprecipitation (IP), and Western blotting (WB). It may also be used to investigate trastuzumab-related biological mechanisms, subject to assay-specific validation.

The product is supplied as 100 µg of lyophilized material in a microcentrifuge tube and requires reconstitution before use. For bulk order, please contact us for a quote.

Antibody Information

- **Molecular Weight:** Approximately 148 kDa
- **Target:** HER2/ErbB2
- **Immunogen:** Cells overexpressing human HER2/ErbB2
- **Species Reactivity:** Human and cynomolgus monkey. No detectable cross-reactivity with mouse or rat ErbB2/neu
- **Expression Host:** Chinese hamster ovary (CHO) cells, stable recombinant cell line
- **Class/Isotype:** Human IgG1 Kappa (IgG1k)
- **Antibody Type:** Monoclonal
- **Purification Method:** Multistep chromatographic purification, including Protein A affinity chromatography
- **Purity:** ≥99% monomeric by SEC-HPLC
- **Physical Appearance:** Colorless to white lyophilized powder in a microcentrifuge tube

Key Features

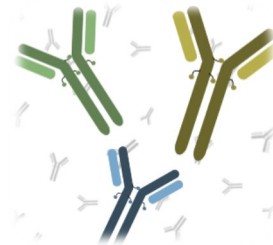
- Lyophilized from a histidine-buffered solution at pH 5.5-6.0
- Accurate protein amount determined by UV/HPLC
- Ready for use following reconstitution with sterile water

Reconstitution

Reconstitute with the desired volume of sterile water. For reference, reconstituting one tube with 100 µL yields a product concentration of 1 mg/mL. The resulting solution is histidine-buffered at pH 5.5–6.0.

Applications

- ELISA, flow cytometry, IF, IHC, IP, and WB.
- Neutralization and other functional assays
- Antibody engineering or development



- Quantitative or qualitative assay controls

Storage/Stability

- Store the lyophilized product at or below -20 °C
- Shelf life before reconstitution: One year from the date of receipt when stored as directed
- After reconstitution, store at 2-8 °C and use within 24 hours for best performance

Figure 1. Representative size-exclusion HPLC (SEC-HPLC) profile of Trastuzumab anti-Her2 mAb Control (Product code: CM51001, Lot no. S705.S7.0630F), showing $\geq 99\%$ monomeric purity with no detectable aggregates.

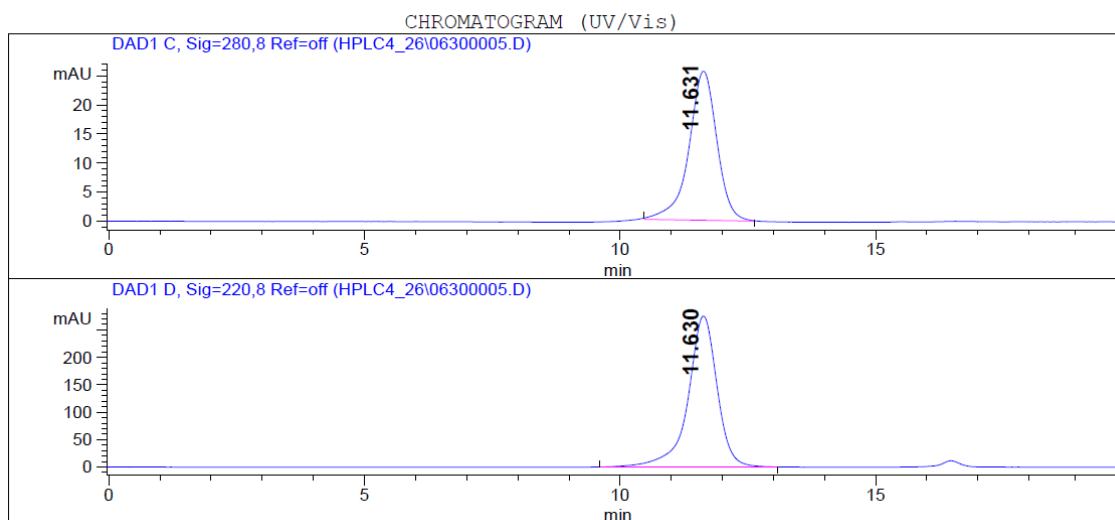
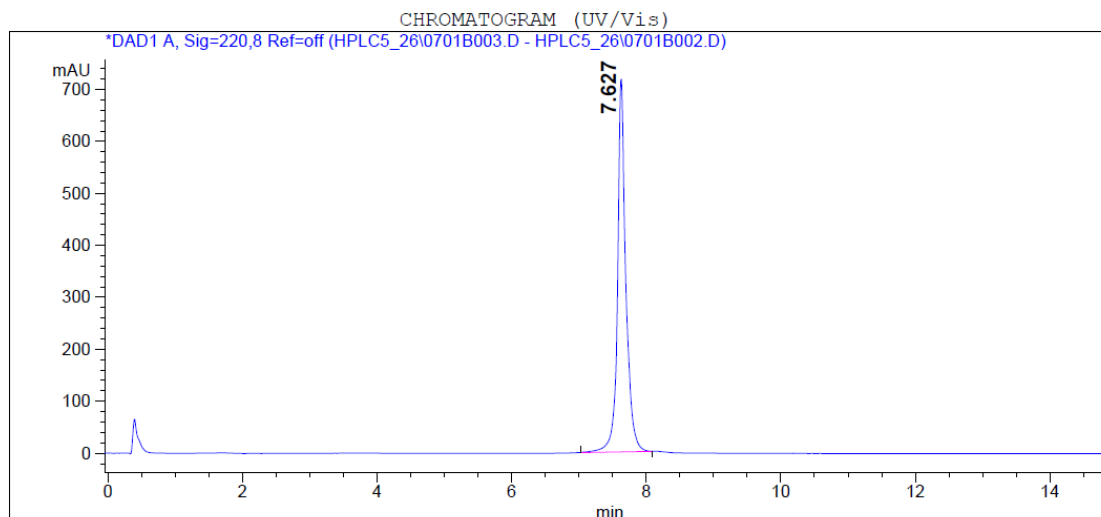


Figure 2. Representative hydrophobic interaction chromatography (HIC-HPLC) profile of Trastuzumab anti-Her2 mAb Control (Product code: CM51001, Lot no. S705.S7.0630F), demonstrating a high degree of antibody homogeneity.



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Important Notes & Contact Information

READ BEFORE USING ANY RESOURCES PROVIDED HEREIN

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Sample data are provided for illustrative and example purposes only and represent a small dataset used to verify kit performance in the CellMosaic laboratory. Information about the chemicals and reagents used in the kit are provided as necessary.

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