

Anti-TNF alpha [D2E7 (Adalimumab)] Standard Size Ab00718-19.0

This antibody does not have a J-chain and is monomeric, i.e. it presents with two Fab arms and one Fc domain.

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgA, Kappa

Clone Number: D2E7 (Adalimumab)

Alternative Name(s) of Target: Tumor necrosis factor alpha

UniProt Accession Number of Target Protein: P01375

Published Application(s): Block, ELISA, IF, IHC

Published Species Reactivity: Human, Mouse

Immunogen: This antibody was generated by affinity maturation from the 2SD4 scFv, which in turn was selected on human TNF alpha by guided phage-display technology, using the murine anti-hTNF alpha antibody Mab32 as a template (c.f. also US Patent 6090382).

Specificity: Binds to soluble TNF-alpha, but not to lymphotoxin (TNF beta).

Application Notes: Adalimumab binds specifically to TNF and neutralizes the biological function of TNF by blocking its interaction with the p55 and p75 cell surface TNF receptors. Adalimumab, unlike Infliximab (Ab00146), was shown to be cross-reactive with mouse TNF alpha (Arnoult 2017, PMID: 28584008).

Antibody First Published in: Jespers et al. Guiding the selection of human antibodies from phage display repertoires to a single epitope of an antigen. Nature Biotechnology 12, 899 - 903 (1994) [PMID:7521646](#)

Note on publication: Describes the generation of this antibody by guided phage-display.

Product Form

Size: 50 µg Purified antibody.

Purification: Affinity Purified using a recombinant lectin column

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.