

Anti-Clusterin [16B5] Standard Size Ab03504-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 16B5

Alternative Name(s) of Target: CLU; APOJ; CLI; KUB1; AAG4

UniProt Accession Number of Target Protein: P10909

Published Application(s): in vitro, in vivo, inhibition, IF

Published Species Reactivity: Human

Immunogen:

Specificity: The antibody binds clusterin on the EMT-epitope.

Application Notes: The effect of the original format of the antibody was evaluated on lung metastasis in BALB/c mice with orthotopically implanted 4T1 cells. The antibody was able to significantly reduce lung metastasis (Lenferink et al., 2010; PMID: 19935703). A humanized version of the antibody was constructed. The humanized version of the antibody inhibited the EMT-inducing activity of clusterin on A549 NSCLC cells. Immunofluorescence was performed on A549 cells using this antibody to monitor E-cadherin expression. The combination of the humanized version of the antibody with erlotinib resulted in an enhanced anti-tumour effect (H1299 and H460 cells) (US9822170). AB-16B5 is a humanized IgG2 version of the antibody which specifically binds to tumour-associated clusterin and inhibits its activity. This antibody showed a good tumour inhibitory effect in in vivo application (Tremblay et al.; 2010). A phase I and phase II trial to assess safety and tolerability of AB-16B5 for the treatment of solid tumours was performed (Ferrario et al., 2017; NCT04364620).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 µg Purified antibody.

Purification:

Protein A affinity purified

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.