

Anti-Clusterin [16B5] Standard Size Ab03504-10.0

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, 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.