

Anti-H3K4me3 [304M3-B] Standard Size Ab00699-1.26

This is an scFv-Fc fusion protein, with a mouse Fc.

This is a long-neck scFv-Fc fusion protein. The long-neck format allows the two scFvs to bind to the antigen in an "antigen clasping" conformation. For more information please consult Hattori et al. 2016.

Isotype and Format: Mouse scFv-Fc, Kappa

Clone Number: 304M3-B

Alternative Name(s) of Target: Trimethylated Histone H3; Trimethylated Lys; Trimethylated Lys4

UniProt Accession Number of Target Protein: B2R4P9

Published Application(s): CHIP, ChIP-seq, IP, IP-MS, WB, ELISA, IF

Published Species Reactivity: Human

Immunogen: The biotinylated peptide from histone H3 ARTKQTARKSTG-GYCD. The last four amino acids GYCD were added for biotinylation purposes.

Specificity: This antibody is highly specific for Histone H3 trimethylated at lysine 4. It has been tested on human histone H3 (K562 cells), but owing to the high conservation of histones, is expected to cross-react with many other species.

Application Notes: This antibody has been used in IP-studies and works in immunofluorescence and Western Blot. In an long-neck scFv-Fc-fusion format been shown to exhibit a high degree of specificity owing to an antigen-clasping binding mechanism (see Hattori et al. 2016).

Antibody First Published in: Hattori et al. Antigen clasping by two antigen-binding sites of an exceptionally specific antibody for histone methylation. Proc Natl Acad Sci U S A. 2016 Feb 23;113(8):2092-7 [PMID:26862167](#)

Note on publication: Describes the characterization of the specificity of this antibody through antigen-clasping.

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.