

Anti-5-Hydroxymethylcytosine [AB3/63.3] Standard Size Ab00862-7.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Developed in partnership with Ximbio (www.ximbio.com).

Isotype and Format: Rat IgG2a, [Fc Silent™](#), Kappa

Clone Number: AB3/63.3

Alternative Name(s) of Target: 5hmc; MABE176; 5hmeC; 5' hydroxymethyl; cytosine; 5'OH methyl cytosine; 5'OHmeC; 5hmc; 5-hmC

UniProt Accession Number of Target Protein:

Published Application(s): Dot, IP, IF

Published Species Reactivity: Species independent

Immunogen: 5-Hydroxymethylcytosine conjugated to BSA.

Specificity: The anti-5-Hydroxymethylcytosine antibody, clone AB3/63.3, detects 5-hydroxymethyl cytosine (hmc, 5hmc), but not 5-methylcytosine or unmethylated cytosine.

Application Notes: This antibody can be used to detect 5hmC by immunofluorescence and dot blot. Zhang et al. (2014, PMID: 24427299) used the original rat IgG2a format (under the name MABE176) in an immunoprecipitation experiment.

Antibody First Published in: Ficz et al. Dynamic regulation of 5-hydroxymethylcytosine in mouse ES cells and during differentiation. Nature. 2011 May 19;473(7347):398-402 [PMID:21460836](#)

Note on publication: Describes the generation and use in immunofluorescence of the original antibody.

Product Form

Size: 200 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.