

Anti-5-Hydroxymethylcytosine [AB3/63.3] Standard Size Ab00862-23.0

Developed in partnership with Ximbio (www.ximbio.com).

This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, 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.