

## 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](http://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:** Ficiz 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.