Anti-5-Hydroxymethylcytosine [AB3/63.3] Standard Size Ab00862-7.1

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

Isotype and Format: Rat IgG2a, 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 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.

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