10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Hmbox1 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10533

Product Information

Application	WB
Primary Accession	Q8BJA3
Other Accession	NM_177338, NP_796312
Reactivity	Human, Mouse, Rat, Zebrafish, Pig, Dog, Bovine
Predicted	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47116

Additional Information

Gene ID	219150
Alias Symbol	AI451877, AI604847, F830020°C16Rik
Other Names	Homeobox-containing protein 1, Hmbox1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Hmbox1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Hmbox1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Hmbox1
Function	Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA (By similarity). Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation (By similarity). Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres (PubMed:23685356). Also plays a role in the alternative lengthening of telomeres (ALT) pathway in telomerase-negative cells where it promotes formation and/or maintenance of ALT-associated promyelocytic leukemia bodies (APBs) (By similarity). Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination (By similarity). Might also be involved in the DNA damage response at telomeres (By similarity).

Cellular Location	Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q6NT76}. Chromosome, telomere. Nucleus, Cajal body {ECO:0000250|UniProtKB:Q6NT76}. Nucleus, PML body {ECO:0000250|UniProtKB:Q6NT76}. Note=Predominantly detected in cytoplasm. Localizes in a dynamic manner to actively processed telomeres. Localizes to the periphery of Cajal bodies. Associates with PML nuclear bodies in telomerase-negative cells {ECO:0000250|UniProtKB:Q6NT76}

Images

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.