

**HBZ Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a full length recombinant HBZ.****Catalog # AT2327a****Specification**

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**HBZ Antibody (monoclonal) (M03) - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">P02008</a>
Other Accession	<a href="#">NM_005332</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	15637

**HBZ Antibody (monoclonal) (M03) - Additional Information****Gene ID** 3050**Other Names**

Hemoglobin subunit zeta, HBAZ, Hemoglobin zeta chain, Zeta-globin, HBZ, HBZ2

**Target/Specificity**

HBZ (NP\_005323, 1 a.a. ~ 81 a.a) full length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

HBZ Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

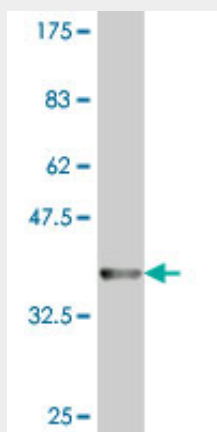
**HBZ Antibody (monoclonal) (M03) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

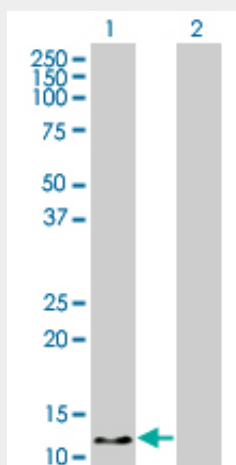
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### HBZ Antibody (monoclonal) (M03) - Images



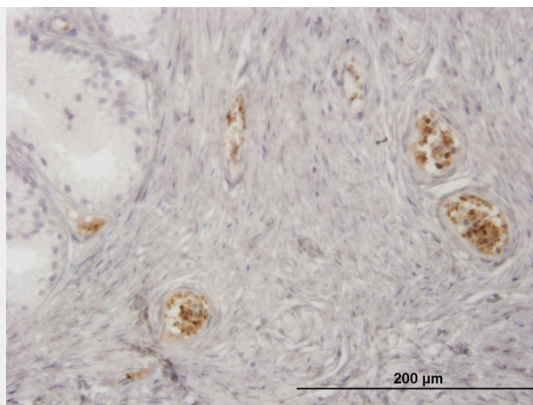
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.91 kDa) .



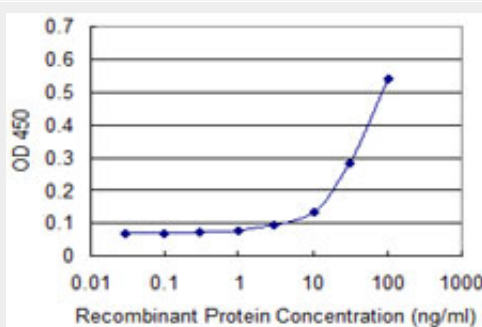
Western Blot analysis of HBZ expression in transfected 293T cell line by HBZ monoclonal antibody (M03), clone 1G10.

Lane 1: HBZ transfected lysate (15.6 kDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to HBZ on formalin-fixed paraffin-embedded human prostate. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged HBZ is approximately 10ng/ml as a capture antibody.

### HBZ Antibody (monoclonal) (M03) - Background

Zeta-globin is an alpha-like hemoglobin. The zeta-globin polypeptide is synthesized in the yolk sac of the early embryo, while alpha-globin is produced throughout fetal and adult life. The zeta-globin gene is a member of the human alpha-globin gene cluster that includes five functional genes and two pseudogenes. The order of genes is: 5' - zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta1 - 3'.

### HBZ Antibody (monoclonal) (M03) - References

A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070. Nuclear localization of HTLV-I bZIP factor (HBZ) is mediated by three distinct motifs. Hivin P, et al. J Cell Sci, 2005 Apr 1. PMID 15755797. Effect of zeta-globin substitution on the O<sub>2</sub>-transport properties of Hb S in vitro and in vivo. He Z, et al. Biochem Biophys Res Commun, 2004 Dec 24. PMID 15555579. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.