

## HBZ Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a full length recombinant HBZ.

Catalog # AT2327a

### Product Information

---

<b>Application</b>	WB, IHC, E
<b>Primary Accession</b>	<a href="#">P02008</a>
<b>Other Accession</b>	<a href="#">NM_005332</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2b Kappa
<b>Clone Names</b>	1G10
<b>Calculated MW</b>	15637

### Additional Information

---

<b>Gene ID</b>	3050
<b>Other Names</b>	Hemoglobin subunit zeta, HBAZ, Hemoglobin zeta chain, Zeta-globin, HBZ, HBZ2
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	HBZ Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

### 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'.

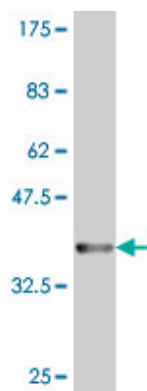
### References

---

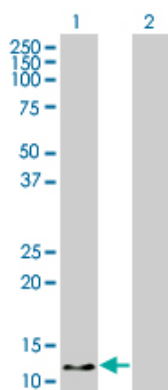
A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070. Nuclear localization of HTLV-I bZIP factor (HBZ) is mediated by three distinct

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.

## Images



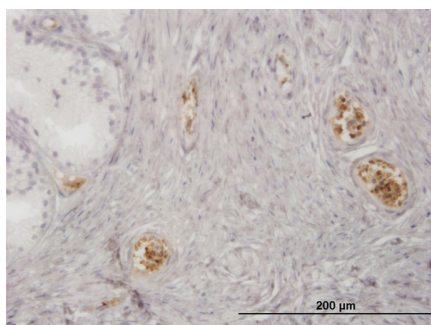
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.91 kDa) .



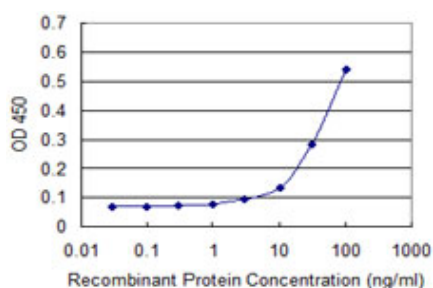
Western Blot analysis of HBZ expression in transfected 293T cell line by HBZ monoclonal antibody (M03), clone 1G10.

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 10 ng/ml as a capture antibody.

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