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## anti-HMOX1 antibody (N-Term)



**Images** 

**Publications** 



Ov	/ervie	9W

Quantity:	100 μL
Target:	HMOX1
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Pig, Dog, Cow, Rabbit, Guinea Pig, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMOX1 antibody is un-conjugated
Application:	Western Blotting (WB)

## **Product Details**

Immunogen:	The immunogen is a synthetic peptide directed towards the N-terminal region of Human HMOX1
Sequence:	ERPQPDSMPQ DLSEALKEAT KEVHTQAENA EFMRNFQKGQ VTRDGFKLVM
Predicted Reactivity:	Cow: 100%, Dog: 100%, Goat: 100%, Guinea Pig: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against HMOX1. It was validated on Western Blot.
Purification:	Affinity Purified

## Target Details

Target: HMOX1

## **Target Details**

Alternative Name:	HMOX1 (HMOX1 Products)
Background:	HMOX1 belongs to the heme oxygenase family. Heme oxygenase, an essential enzyme in heme
	catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by
	biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase
	activity is induced by its substrate heme and by various nonheme substances. Heme
	oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme
	oxygenase-2.
	Alias Symbols: HO-1, HSP32, bK286B10
	Protein Interaction Partner: CCDC155, UBC, TUT1, CPSF1, ASL, POT1, TERF1, ELAVL1, HMX1,
	BLVRB, AKT1, NOS1, HMOX1, POR, UFD1L, PSMD2,
	Protein Size: 288
Molecular Weight:	33 kDa
Gene ID:	3162
NCBI Accession:	NM_002133, NP_002124
UniProt:	P09601
Pathways:	Transition Metal Ion Homeostasis, Regulation of Leukocyte Mediated Immunity, Positive
	Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Response, SARS-CoV-2 Protein Interactome

## **Application Details**

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 288 AA	
Restrictions:	For Research Use only	

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

#### Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Publications**

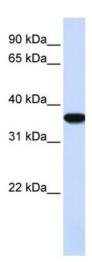
#### Product cited in:

Wanitchakool, Ousingsawat, Sirianant, Cabrita, Faria, Schreiber, Kunzelmann: "Cellular defects by deletion of ANO10 are due to deregulated local calcium signaling." in: **Cellular signalling**, Vol. 30, pp. 41-49, (2016) (PubMed).

Schreiber, Kunzelmann: "Expression of anoctamins in retinal pigment epithelium (RPE)." in: **Pflügers Archiv: European journal of physiology**, Vol. 468, Issue 11-12, pp. 1921-1929, (2016) (PubMed).

Hammer, Wanitchakool, Sirianant, Papiol, Monnheimer, Faria, Ousingsawat, Schramek, Schmitt, Margos, Michel, Kraiczy, Pawlita, Schreiber, Schulz, Fingerle, Tumani, Ehrenreich, Kunzelmann: "A Coding Variant of ANO10, Affecting Volume Regulation of Macrophages, Is Associated with Borrelia Seropositivity." in: **Molecular medicine (Cambridge, Mass.)**, Vol. 21, pp. 26-37, (2015) (PubMed).

Tian, Schreiber, Kunzelmann: "Anoctamins are a family of Ca2+-activated Cl- channels." in: **Journal of cell science**, Vol. 125, Issue Pt 21, pp. 4991-8, (2013) (PubMed).



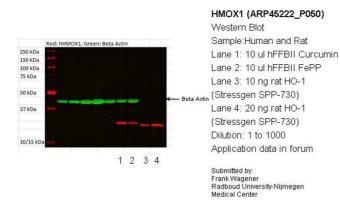
### Western Blotting

Image 1. WB Suggested Anti-HMOX1 Antibody Titration:

0.2-1 ug/ml

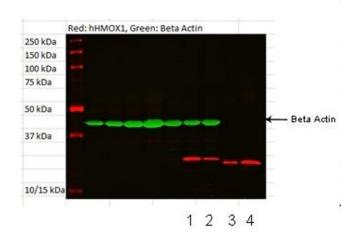
**ELISA Titer:** 1:312500

Positive Control: HepG2 cell lysate



#### **Western Blotting**

Image 2.



### **Western Blotting**

**Image 3.** HMOX1 antibody - N-terminal region validated by WB using tonsil and fibroblast at 1:1000.

Please check the product details page for more images. Overall 6 images are available for ABIN2782158.