



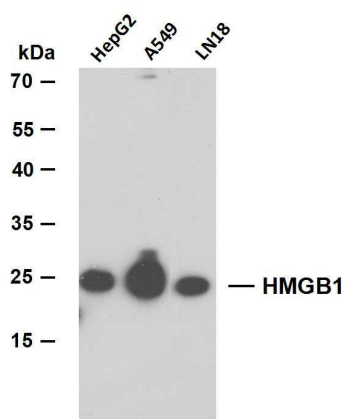
HMGB1 (PTR2339) Mouse mAb

Catalog No	YP-Ab-17151
Isotype	IgG
Reactivity	Human, Mouse,Rat
Applications	WB,ELISA,IF
Gene Name	HMGB1 HMG1
Immunogen	Synthesized peptide derived from human HMGB1
Specificity	This antibody detects endogenous levels of HMGB1 at Human, Mouse,Rat
Formulation	PBS, pH7.4, 50% glycerol, 0.03%Proclin 300
Source	Mouse,monoclonal:IgG1, Kappa
Purification	Protein G
Dilution	WB 1:500-2000 ELISA 1:5000-20000;IF 1:100-500
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	high mobility group box 1;High mobility group protein 1;High mobility group protein B1;HMG 1;HMG1;HMGB1;HMGB1 HMG1;High mobility group protein B1 (High mobility group protein 1) (HMG-1)
Observed Band	24kDa
Calculated Molecular Weight	24kDa
Cell Pathway	Nucleus . Chromosome . Cytoplasm . Secreted . Cell membrane ; Peripheral membrane protein ; Extracellular side . Endosome . Endoplasmic reticulum-Golgi intermediate compartment . In basal state predominantly nuclear. Shuttles between the cytoplasm and the nucleus (PubMed:12231511, PubMed:17114460). Translocates from the nucleus to the cytoplasm upon autophagy stimulation (PubMed:20819940). Release from macrophages in the extracellular milieu requires the activation of NLRC4 or NLRP3 inflammasomes (By similarity). Passively released to the extracellular milieu from necrotic cells by diffusion, involving the fully reduced HGMB1 which subsequently gets oxidized (PubMed:19811284). Also released from apoptotic cells (PubMed:16855214, PubMed:18631454). Active secretion from a variety of immune a
Tissue Specificity	Ubiquitous. Expressed in platelets (PubMed:11154118).

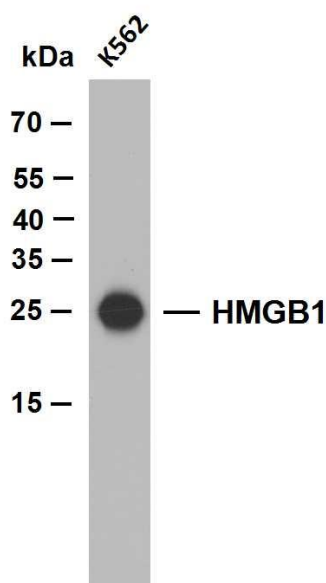


Function	function: Binds preferentially single-stranded DNA and unwinds double stranded DNA., similarity: Belongs to the HMGB family., similarity: Contains 2 HMG box DNA-binding domains.,
Background	high mobility group box 1 (HMGB1) Homo sapiens This gene encodes a protein that belongs to the High Mobility Group-box superfamily. The encoded non-histone, nuclear DNA-binding protein regulates transcription, and is involved in organization of DNA. This protein plays a role in several cellular processes, including inflammation, cell differentiation and tumor cell migration. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Sep 2015],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

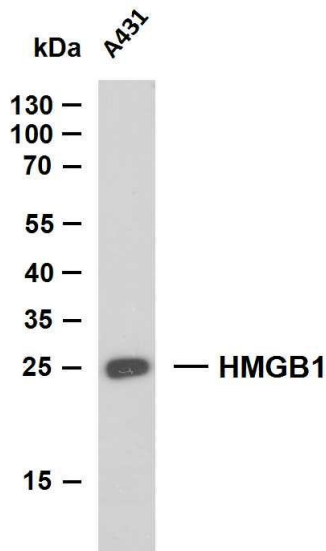
Products Images



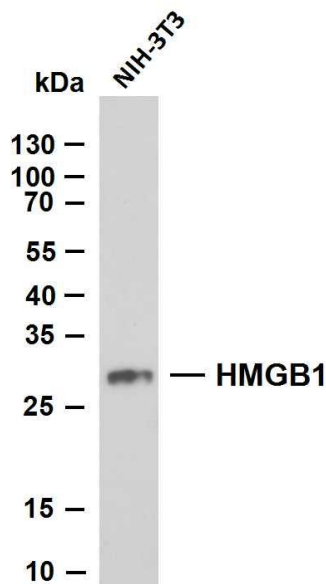
Various whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: A549 Lane 3: LN18 Predicted band size: 24kDa Observed band size: 24kDa



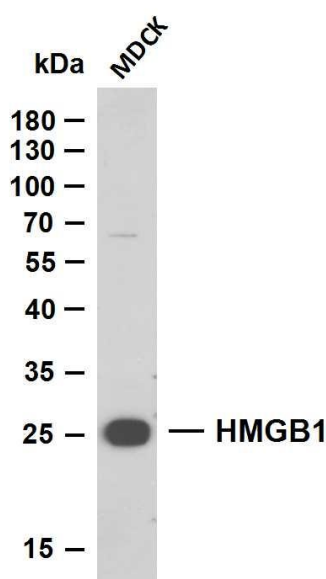
K562 whole cell lysates were separated by 15% SDS-PAGE, and the membrane was blotted with anti-HMGB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 24kDa Observed band size: 24kDa



A431 whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Predicted band size: 24kDa
Observed band size: 24kDa



NIH-3T3 whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Predicted band size: 24kDa
Observed band size: 26kDa



MDCK whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: MDCK Predicted band size: 24kDa
Observed band size: 25kDa