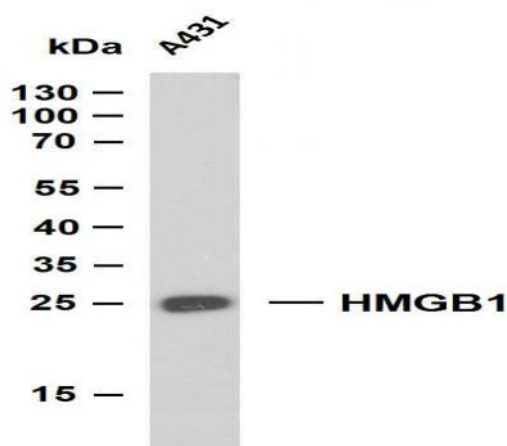


HMGB1 (PTR2339) Mouse mAb

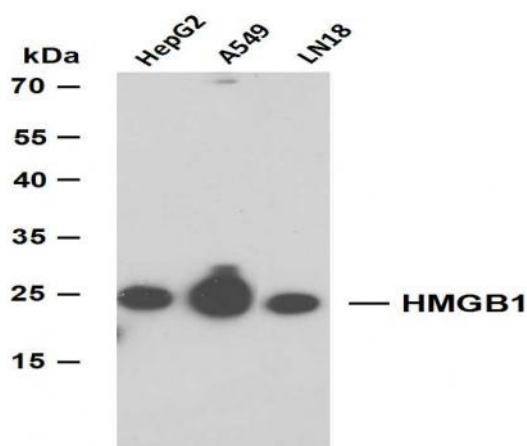
Catalog No :	YM4697
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	HMGB1
Fields :	>>Base excision repair;>>Autophagy - animal;>>Necroptosis;>>Neutrophil extracellular trap formation
Gene Name :	HMGB1 HMG1
Protein Name :	High mobility group protein B1 (High mobility group protein 1) (HMG-1)
Human Gene Id :	3146
Human Swiss Prot No :	P09429
Mouse Gene Id :	100862258
Mouse Swiss Prot No :	P63158
Rat Gene Id :	25459
Rat Swiss Prot No :	P63159
Immunogen :	Synthesized peptide derived from human HMGB1 AA range: 100-200
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
Dilution :	WB 1:500-2000,ELISA 1:5000-20000

Purification :	Protein G
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	24kDa
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],
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.,
Subcellular Location :	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 HMGB1 which subsequently gets oxidized (PubMed:19811284). Also released from apoptotic cells (PubMed:16855214, PubMed:18631454). Active secretion from a variety of immune a
Expression :	Ubiquitous. Expressed in platelets (PubMed:11154118).

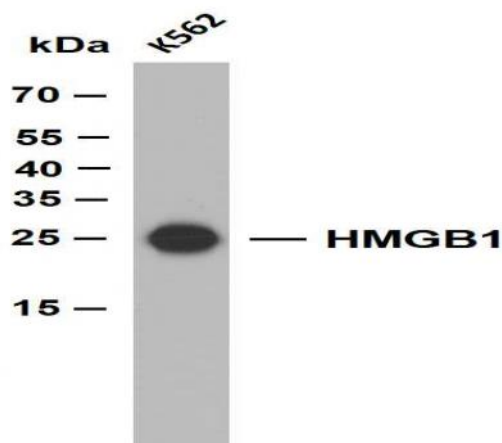
Products Images



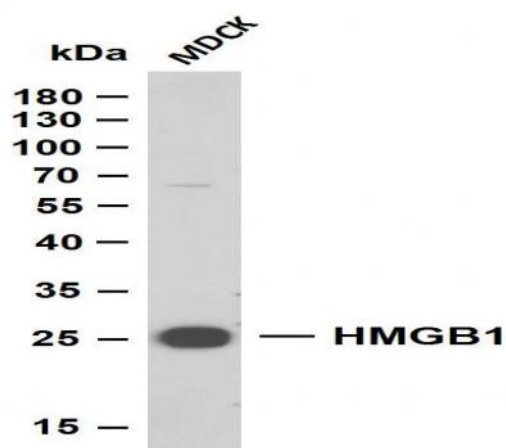
A431 whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 (PTR2339) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Predicted band size: 24kDa Observed band size: 24kDa



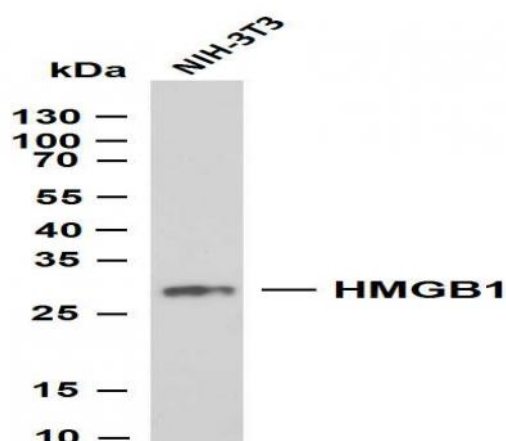
Various whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 (PTR2339) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: A549 Lane 3: LN18 Predicted band size: 24kDa Observed band size: 24kDa



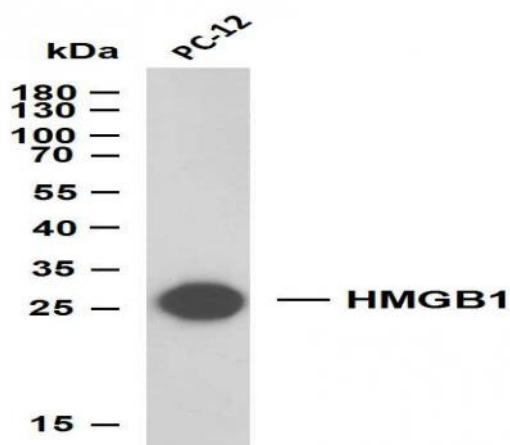
K562 whole cell lysates were separated by 15% SDS-PAGE, and the membrane was blotted with anti-HMGB1 (PTR2557) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 24kDa Observed band size: 24kDa



MDCK whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 (PTR2339) 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



NIH-3T3 whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 (PTR2339) 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



PC-12 whole cell lysates were separated by 12% SDS-PAGE, and the membrane was blotted with anti-HMGB1 (PTR2339) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: PC-12 Predicted band size: 24kDa Observed band size: 24kDa