Best Tools for immunology Research

HMG-1 (Acetyl Lys82) rabbit pAb

Catalog No :	YK0145
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 :	HMG-1 (Acetyl Lys82)
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 HMG-1 (Acetyl Lys82)
Specificity :	This antibody detects endogenous levels of Human,Mouse,Rat HMG-1 (Acetyl Lys82)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000

Purification : The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : about 30kd

Background : 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.,

Function : negative regulation of transcription from RNA polymerase II promoter, DNA metabolic process, DNA replication, DNA-dependent DNA replication, DNA ligation, DNA unwinding during replication, DNA repair, base-excision repair, base-excision repair, DNA ligation, DNA recombination, chromatin organization, regulation of transcription, DNA-dependent,regulation of transcription from RNA polymerase II promoter, anti-apoptosis, response to DNA damage stimulus,negative regulation of biosynthetic process, negative regulation of macromolecule biosynthetic process, negative regulation of macromolecule metabolic process, negative regulation of gene expression, regulation of cell death,negative regulation of transcription, negative regulation of transcriptional preinitiation complex assembly, negative regulation of cellular biosynthetic process, DNA geometric change, DNA duplex unwinding, cellular respo

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 HGMB1 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).

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