Product Datasheet

HMGB4 Antibody

Catalog No: #31080

Package Size: #31080-1 50ul #31080-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	HMGB4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total HMGB4 protein.
Immunogen Type	Recombinant protein
Immunogen Description	Full length fusion protein
Target Name	HMGB4
Other Names	high mobility group box 4, dJ1007G16.5
Accession No.	Swiss-Prot:Q8WW32Gene ID:127540;
Uniprot	Q8WW32
GeneID	127540;
Concentration	0.2mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

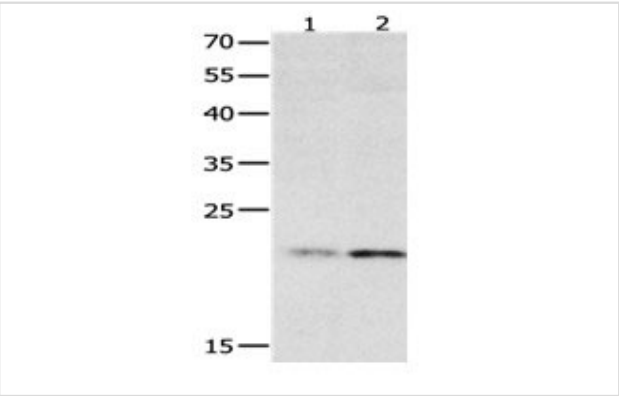
Application Details

Predicted MW: 22kd

ELISA: 1:1000-1:2000

Western blotting: 1:200-1:1000

Images



Gel: 12%SDS-PAGE
Lane1: 231 cell lysate
Lane2: Human fetal liver tissue lysate
Lysates: 40 ug per lane
Primary antibody: 1/500 dilution
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution
Exposure time: 2 minutes

Background

High mobility group protein B4?is a?transcription factor?that in humans is encoded by the?HMGB4?gene.HMGB4 is strongly and preferentially

expressed in the adult mouse testis and weakly in the brain, but not in many other tissues. HMGB4 associates with chromatin, and in transfection assays, in contrast to HMGB1, it acts as a potent transcriptional repressor. During spermatogenesis, HMGB4 is present in the euchromatin of late pachytene spermatocytes and haploid round spermatids, whereas stronger expression is observed during the elongation phase, where it localizes to the basal pole of the nucleus in a manner mutually exclusive with H1FNT (H1T2) localized at the apical pole. HMGB4 basal localization is lost in H1FNT-mutant spermatids, showing that H1FNT provides a positional cue for organizing chromatin domains within the nucleus. These results show that HMGB4 and H1FNT specify distinct chromatin domains at the apical and basal poles of the elongating spermatid nucleus.

Note: This product is for in vitro research use only