abcam

Product datasheet

Anti-HMG4 antibody [EP2839Y] ab75782

Recombinant RabMAb

7 References 8 Images

Overview

Product name	Anti-HMG4 antibody [EP2839Y]	
Description	Rabbit monoclonal [EP2839Y] to HMG4	
Host species	Rabbit	
Tested applications	Suitable for: IP, ICC/IF, Flow Cyt (Intra), WB, IHC-P	
Species reactivity	Reacts with: Mouse, Rat, Human	
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.	
Positive control	WB: Human bladder, Human placenta, Mouse brain, Mouse bladder, Rat brain, Rat bladder, Rat placenta and HeLa lysates. IHC-P: Human placenta, Mouse liver, and Rat liver tissues. ICC/IF: 293T cells. Flow Cyt (intra): HeLa cells. IP: HeLa whole cell lysate.	
General notes	 This product is a recombinant monoclonal antibody, which offers several advantages including: High batch-to-batch consistency and reproducibility Improved sensitivity and specificity Long-term security of supply Animal-free production For more information <u>see here</u>. Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u>. 	

Properties	
Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP2839Y
lsotype	lgG

Applications

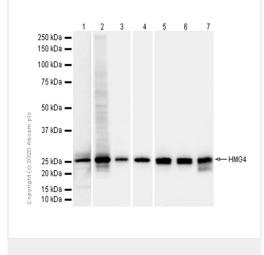
The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab75782 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/20.
ICC/IF		1/250.
Flow Cyt (Intra)		1/20.
WB		1/1000. Detects a band of approximately 25 kDa (predicted molecular weight: 23 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target	
Function	Binds preferentially single-stranded DNA and unwinds double stranded DNA.
Tissue specificity	Expressed predominantly in placenta.
Sequence similarities	Belongs to the HMGB family. Contains 2 HMG box DNA-binding domains.
Cellular localization	Nucleus. Chromosome.

Images



Western blot - Anti-HMG4 antibody [EP2839Y] (ab75782) **All lanes :** Anti-HMG4 antibody [EP2839Y] (ab75782) at 1/1000 dilution (Purified)

- Lane 1 : Human bladder lysate
- Lane 2 : Human placenta lysate
- Lane 3 : Mouse brain lysate
- Lane 4 : Mouse bladder lysate
- Lane 5 : Rat brain lysate
- Lane 6 : Rat bladder lysate
- Lane 7 : Rat placenta lysate

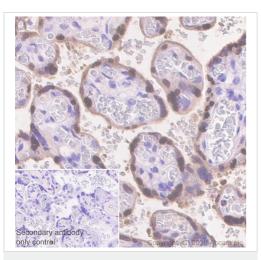
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution

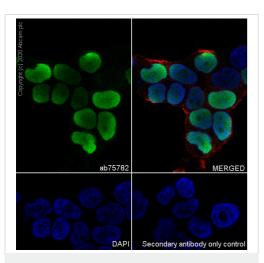
Predicted band size: 23 kDa Observed band size: 25 kDa

Blocking buffer: 5% NFDM/TBST



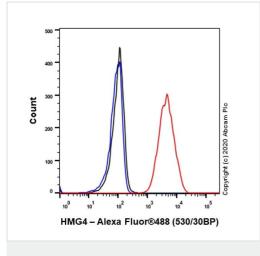
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue sections labeling HMG4 with Purified ab75782 at 1/100 dilution (1.13 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HMG4 antibody [EP2839Y] (ab75782)



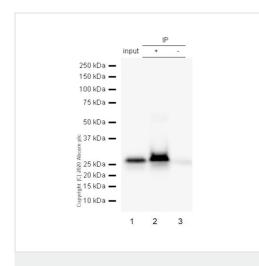
Immunocytochemistry/ Immunofluorescence - Anti-HMG4 antibody [EP2839Y] (ab75782)

Immunocytochemistry analysis of 293T (Human embryonic kidney epithelial cell) cells labeling HMG4 with Purified ab75782 at 1/250 dilution (0.452 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488,**ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling HMG4 with Purified ab75782 at 1/20 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor[®] 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

Flow Cytometry (Intracellular) - Anti-HMG4 antibody [EP2839Y] (ab75782)



Immunoprecipitation - Anti-HMG4 antibody [EP2839Y] (ab75782) Purified ab75782 at 1/20 dilution $(0.5\mu g)$ immunoprecipitating HMG4 in HeLa whole cell lysate.

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg

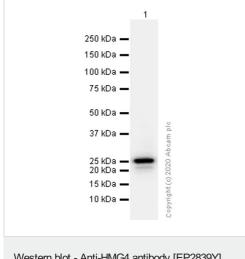
Lane 2: ab75782 + HeLa whole cell lysate.

Lane 3: Rabbit monoclonal lgG (<u>ab172730</u>) instead of ab75782 in HeLa whole cell lysate.

VeriBlot for IP Detection Reagent (HRP)(<u>ab131366</u>) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Observed band size: 25 kDa



Anti-HMG4 antibody [EP2839Y] (ab75782) at 1/5000 dilution (Purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 15 µg

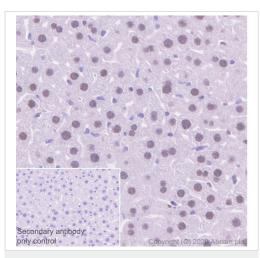
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

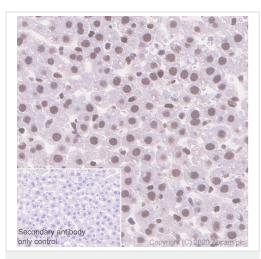
Predicted band size: 23 kDa Observed band size: 25 kDa

Western blot - Anti-HMG4 antibody [EP2839Y] (ab75782)

Blocking buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HMG4 antibody [EP2839Y] (ab75782) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue sections labeling HMG4 with Purified ab75782 at 1/100 dilution (1.13 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue sections labeling HMG4 with Purified ab75782 at 1/100 dilution (1.13 µg/ml). Heat mediated antigen retrieval using Bond[™] Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-HMG4 antibody [EP2839Y] (ab75782)

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