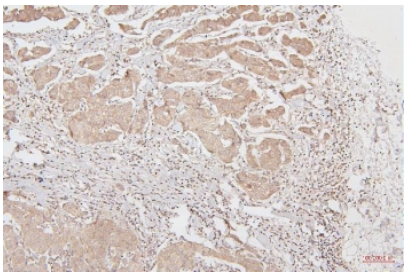
HMGB1 Antibody [clone 5H3] (RQ5513)

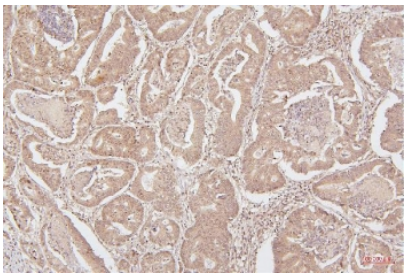
Catalog No.	Formulation	Size
RQ5513	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

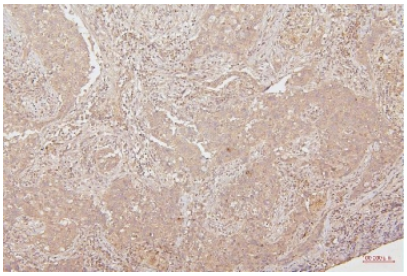
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	5H3
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P09429
Localization	Nuclear, cytoplasmic, cell membrane, extracellular
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This HMGB1 antibody is available for research use only.



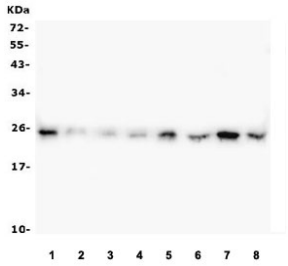
IHC staining of FFPE human breast cancer with HMGB1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



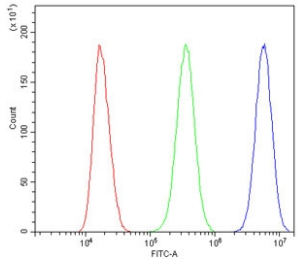
IHC staining of FFPE human intestinal cancer with HMGB1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



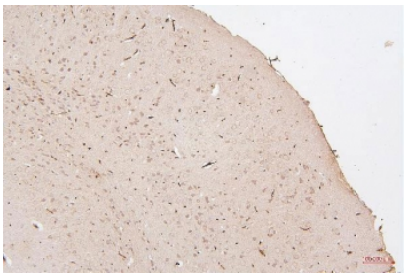
IHC staining of FFPE human lung cancer with HMGB1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



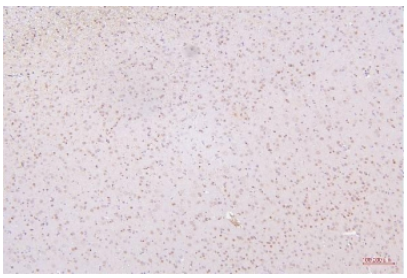
Western blot testing of 1) human HepG2, 2) human CCRF-CEM, 3) monkey COS-7, 4) human SW620, 5) human ThP-1, 6) rat PC-12, 7) rat RH35 and 8) mouse NIH3T3 with HMGB1 antibody. Predicted molecular weight ~25 kDa.



Flow cytometry testing of human SiHa cells with HMGB1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HMGB1 antibody.



IHC staining of FFPE mouse brain with HMGB1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain with HMGB1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

Description

High mobility group box 1 protein, also known as high-mobility group protein 1 (HMG-1) and amphoterin, is a protein that in humans is encoded by the HMGB1 gene. 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.

Application Notes

Optimal dilution of the HMGB1 antibody should be determined by the researcher.

Immunogen

Amino acids DVAKKLGEMWNNTAADDKQPYEKKAAKLKEK were used as the immunogen for the HMGB1 antibody.

Storage

After reconstitution, the HMGB1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.