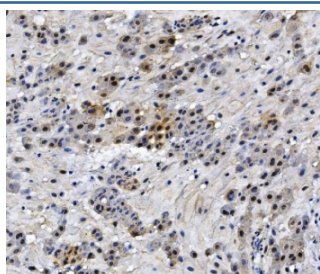


## HMGB3 Antibody / HMG4 [clone 7G13] (RQ6029)

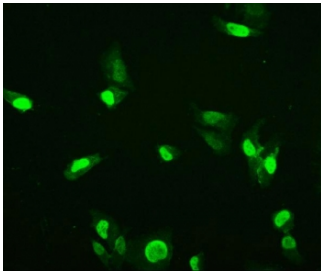
Catalog No.	Formulation	Size
RQ6029	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

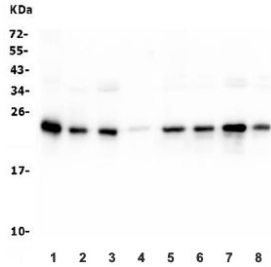
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b
<b>Clone Name</b>	7G13
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	O15347
<b>Localization</b>	Nuclear, cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	This HMGB3 antibody is available for research use only.



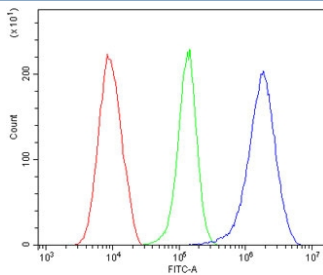
IHC staining of FFPE human placenta with HMGB3 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with HMGB3 antibody. HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) placenta, 2) HeLa, 3) T-47D, 4) A431, 5) HepG2, 6) Caco-2, 7) SW620 and 8) Raji lysate with HMGB3 antibody. Predicted molecular weight ~23 kDa.



Flow cytometry testing of human HeLa cells with HMGB3 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HMGB3 antibody.

## Description

High-mobility group protein B, also known as HMG4, is a protein that in humans is encoded by the HMGB3 gene. This gene encodes a member of a family of proteins containing one or more high mobility group DNA-binding motifs. The encoded protein plays an important role in maintaining stem cell populations, and may be aberrantly expressed in tumor cells. A mutation in this gene was associated with microphthalmia, syndromic 13. There are numerous pseudogenes of this gene on multiple chromosomes. Alternative splicing results in multiple transcript variants.

## Application Notes

Optimal dilution of the HMGB3 antibody should be determined by the researcher.

## Immunogen

Amino acids EMAKADKVVRYDREMKDYGPAKGGKKKKDPNAPKR from the human protein were used as the immunogen for the HMGB3 antibody.

## Storage

After reconstitution, the HMGB3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

