



## KAPPA AND LAMBDA LIGHT CHAIN ANTIBODIES

### MONOSPECIFIC RABBIT CLONAL ANTIBODIES FOR **IHC-P** application

DB Biotech introduces a new quality of monospecific rabbit clonal antibodies for clinical diagnostics and research developed by an original in vitro cloning technology owned by the company.



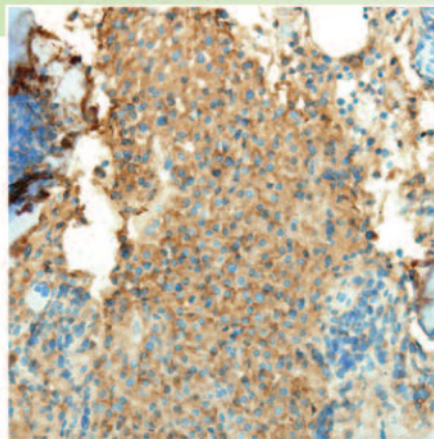
## ADVANTAGES OF DB BIOTECH RABBIT CLONAL ANTIBODIES:



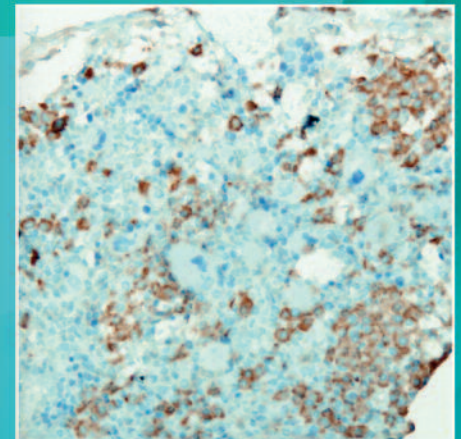
- **Exceptional specificity** recognizing the corresponding antigen at the concentration of  $\geq 5$  ng
- **Highest sensitivity, affinity and avidity**
- **Reliability on any tissue**

**“DB Biotech kappa and lambda antibodies showed excellent sensitivity and specificity, compared to standard antibodies. With the use of these new antibodies, it would be possible to solve two thirds of cases previously considered as equivocal.”\***

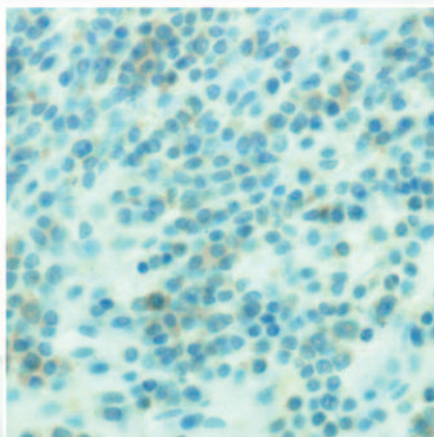
Conclusion of a study of 43 trephine biopsy samples from cases in which kappa and lambda IHC staining was performed in the diagnostic workup of suspected or already confirmed plasma cell myeloma (index and follow-up biopsies).



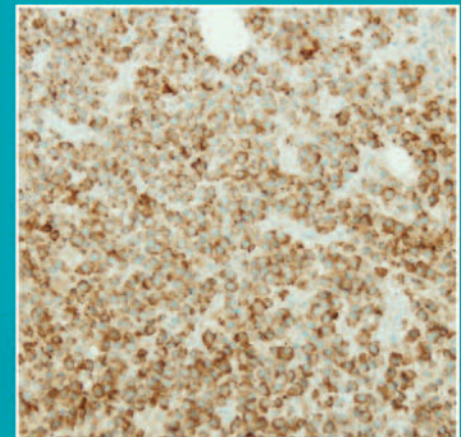
Mouse monoclonal kappa light chain antibody from Producer A\*



Monospecific rabbit clonal kappa light chain **DB037** from **DB BIOTECH** \*



Mouse monoclonal lamda light chain antibody from Producer B\*



Monospecific rabbit clonal lamda light chain **DB039** from **DB BIOTECH** \*

\* Testing of Kappa and Lambda immunoglobulin light chain antibodies.  
Marian Svajdler MD. from Louis Pasteur University Hospital, Department of Pathology, Košice, Slovak Republic.

catalogue#	volume	dilution
<b>DB037 Kappa light chain clone A21-Y (N-term)</b>		
DB037-0.1	100µl	1:100 - 1:500
DB037-0.2	200µl	
DB037-0.5	500µl	
DB037-1	1ml	
DB037-RTU-7	7ml	
DB037-RTU-15	15ml	

<b>DB038 Kappa light chain clone H16-E (C-term)</b>		
DB038-0.1	100µl	1:100 - 1:500
DB038-0.2	200µl	
DB038-0.5	500µl	
DB038-1	1ml	
DB038-RTU-7	7ml	
DB038-RTU-15	15ml	

<b>DB039 Lambda light chain clone K22-Y (N-term)</b>		
DB039-0.1	100µl	1:100 - 1:1 500
DB039-0.2	200µl	
DB039-0.5	500µl	
DB039-1	1ml	
DB039-RTU-7	7ml	
DB039-RTU-15	15ml	

20µl (concentrated) and 1ml (ready to use) TRIAL SIZE AVAILABLE

## FAQs:

### What is the difference between monoclonal and DB Biotech clonal antibodies?

Clonal antibodies are monospecific such as monoclonals. The principal difference between these two types of antibodies is that the DB Biotech clonal antibodies recognize solely very specifically selected linear epitope on the antigen molecule after its detailed proteomic analysis whereas the monoclonal antibodies recognize very often steric epitopes that frequently change their conformation during tissue preparation, protein extraction, etc., making the corresponding monoclonal antibody unspecific, less avid and in extreme cases not functional.

### Why does DB Biotech offer two separate clonal antibodies for the same antigen?

Some antigens have a number of specific linear epitopes that can be recognized by the corresponding clonal antibody with different level of intensity depending on the tested pathology, material, patient, etc. In such case DB Biotech develops 2-3 clonal antibodies characterizing different linear epitopes on the same antigen. We leave it to the clinician/scientist to test and select which clone is more appropriate for his/her researched model/application.

### Can clonal antibodies be used for the same applications as polyclonal and monoclonal antibodies?

Yes, however clonal antibodies are significantly more specific than polyclonals and therefore may be used even for very sensitive applications where the absolute specificity is essential - such as clinical diagnostics.

Clonal antibodies are comparable to monoclonals, but they recognize only the linear epitopes whereas their specificity, affinity and avidity remain unchanged even in case of possible transformation of the antigen conformation.



To review our comprehensive panel for routine IHC diagnostics as well as our research WB ELISA, IP and FC line, please visit our website

[www.dbbiotech.com](http://www.dbbiotech.com)