

## Product datasheet

# Anti-Lambda Light chain antibody [N10/2] ab780

### Overview

<b>Product name</b>	Anti-Lambda Light chain antibody [N10/2]
<b>Description</b>	Mouse monoclonal [N10/2] to Lambda Light chain
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody is specific for Lambda Light Chains It does not show any cross-reactivity with kappa light chain and stains B cell follicles in human lymphoid tissues.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Purified IgG from human serum.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.05% Sodium Azide Constituents: 1% BSA, Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	N10/2
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

### Applications

Our [Abpromise guarantee](#) covers the use of **ab780** 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
IHC-Fr		

Application	Abreviews	Notes
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IHC-P

### Application notes

IHC: This antibody may be diluted to a titer of 1:25-1:75 in an ABC method.  
 Staining Protocol: We suggest an incubation period of 30-60 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation conditions and antibody dilutions should be determined by the user.  
 Enzymatic antigen retrieval of formalin fixed paraffin embedded tissue sections is required prior to immunostaining.

### Target

#### Relevance

All five immunoglobulin classes share the same basic four polypeptide chain structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. Kappa and Lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of Kappa to Lambda is 70:30, the vast majority of which is bound to heavy-chain in immunoglobulin. In normal individuals low levels of free light-chain are present in serum (kappa, 1.6-15.2 mg/L; Lambda, 0.4-4.2mg/L), with the occurrence of multiple myeloma or other B-cell malignancies these levels can be greatly elevated and can be found at high levels in the urine (Bence-Jones proteins).

#### Cellular localization

Cytoplasmic

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