

## Product datasheet

# Anti-L-Alanine antibody ab9436

### 1 References

#### Overview

<b>Product name</b>	Anti-L-Alanine antibody
<b>Description</b>	Rabbit polyclonal to L-Alanine
<b>Specificity</b>	The antibody is calibrated against a spectrum of antigens to assure hapten selectivity. No measurable cross-reactivity (<1:1000) was detected against alanine in peptides or proteins. Fixed tissue cross-reactivity was tested with known targets at the recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) was detected against D/L-aspartate, D/L-arginine, agmatine, guanidine, gamma-aminobutyrate, L-citrulline, L-cysteine, D/L-glutamate, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Significant cross-reactivity (1:10) was detected against beta-alanine.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-FoFr, ICC, IHC-Fr, Immunomicroscopy
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Chemical/ Small Molecule by a Glutaraldehyde linker.

#### 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>Purity</b>	IgG fraction
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab9436** 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-FoFr		

Application	Abreviews	Notes
ICC		
IHC-Fr		
Immunomicroscopy		

**Application notes**

This antibody is recommended for thin section post-embedding endogenous content mapping by Light and Electron microscopy immunostaining via High Performance Immunocytochemistry (HPI) (see "Protocols" tab above)

Recommended user dilution: 1/100  
 True Dilution at User Dilution: 1/8000

High-performance thin section immunostaining using silver-intensified immunogold or fluorescence detection.

Enhanced detection is possible using streptavidin detection.

EM applications with 10-40 nm gold GAR IgGs or gold streptavidin.

OPTIMAL FIXATION: 0.1-2.5% glutaraldehyde, 1% formaldehyde using HPI protocol (The antisera targets the glutaraldehyde conjugate of the hapten).

MINIMAL GLUTARALDEHYDE: 0.1% using HPI

The hapten is osmium tolerant (deosmication required), therefore the antisera can be used on conventional post-embedding electron microscope immunostaining.

All procedures may be carried out at room temperature. Exact dilutions for all applications cannot be predicted, but it is unlikely that deviations from the calibrated levels will be needed. Dilutions are optimized for antigen detection over a 2 log unit range.

The product is optimized for HPI/EHPI with gold or fluorescence detection using etched plastic sections. Filter diluted reagents with 0.2 mm syringe filters before use on EM grids. Enzyme-linked visualizations can be used but will compress the signal dynamic range and are less sensitive.

Use with frozen or vibratome sections is possible but will not yield optimal images as IgGs penetrate aldehyde cross-linked tissue poorly and most amino acids are present at such high levels that prozone effects occur. Use in whole mounts is not recommended for similar reasons.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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