

Anti-Melphalan antibody [Amp4/42] ab97554

5 References

Overview

Product name	Anti-Melphalan antibody [Amp4/42]
Description	Mouse monoclonal [Amp4/42] to Melphalan
Host species	Mouse
Specificity	<p>This antibody recognises the ring-opened structure that forms when DNA is alkylated by the anti-cancer drug melphalan and is then exposed to alkali. The alkali causes guanine bases alkylated at the N7 position to undergo a so-called ring-opening reaction and this antibody appears to recognise this structure, although recognition may be influenced by the neighbouring DNA sequence. The products of the ring-opening reaction are more resistant to depurination reactions than the original guanine adducts. This antibody was developed to improve detection of melphalan-DNA adducts through its ability to recognise the stabilised adduct. The Amp4/42 clone did not bind to alkali-treated control DNA or to DNA that had been alkylated with melphalan but not exposed to alkali. This antibody can be used for quantification of melphalan adducts in purified DNA by ELISA and for immunofluorescent detection of melphalan-DNA adducts in single cells.</p>
Tested applications	Suitable for: ELISA
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to Melphalan. DNA/ melphalan alkylated DNA.
Positive control	DNA/ melphalan alkylated DNA.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS

Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	Amp4/42
Myeloma	Y3/Ag1.2.3
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab97554 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
ELISA		Use at an assay dependent dilution.

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