

Anti-Melphalan-modified DNA [MP5/73]

Catalogue number: 151466

Sub-type: Primary antibody

Images:

Contributor

Inventor: Michael Tilby

Institute: The Institute of Cancer Research; Newcastle University

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Melphalan-modified DNA [MP5/73]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Description: This antibody was developed to improve detection of melphalan-DNA adducts through its ability to recognise the stabilised adduct. 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.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG2b

Reactivity:

Selectivity:

Host: Rat

Immunogen: Native DNA reacted with melphalan

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: RNA/DNA

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Melphalan

Target alternate names:

Target background: This antibody was developed to improve detection of melphalan-DNA adducts through its ability to recognise the stabilised adduct. 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.

Molecular weight:

Ic50:

Applications

Application: ELISA ; IHC

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: -15° C to -25° C

Shipping conditions: Shipping at 4° C

Related tools

Related tools: Anti-Melphalan-modified DNA [Amp4/42]

References

References: Frank AJ and Tilby MJ. Exp Cell Res. 2003 Feb 15;283(2):127-34.PMID: 12581733 ; Buschfort-Papewalis et al. 2002. Blood. 100(3):845-53. PMID: 12130494. ; Down-regulation of DNA repair in human CD34(+) progenitor cells corresponds to increased drug sensitivity and apoptotic response. ; McCartney et al. 2001. Chem Res Toxicol. 14(1):71-81. PMID: 11170510. ; McCartney et al. 2001. Chem Res Toxicol. 14(1):71-81. PMID: 11170510. ; Antibody recognition of melphalan adducts characterized using immobilized DNA: enhanced alkylation of G-Rich regions in cells compared to in vitro. ; Tilby et al. 1998. Chem Res Toxicol. 11(10):1162-8. PMID: 9778312. ; A monoFn derivative of melphalan: preparation, DNA alkylation products, and determination of the specificity of monoclonal antibodies that recognize melphalan-DNA adducts. ; Tilby et al. 1995. Carcinogenesis. 16(8):1895-901. PMID: 7634420. ; A monoclonal antibody that recognizes alkali-stabilized melphalan-DNA adducts and its application in immunofluorescence microscopy.

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