



# Anti-Mecoprop monoclonal antibody, clone IZC 338-02 (DMAB5755)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to mecoprop.
<b>Antigen Description</b>	The pesticide (herbicide) Mecoprop in its stereo chemical S-configuration (S-MCPP).
<b>Specificity</b>	Cross-reactivity for the other phenoxy herbicides such as R-MCPP, S-DCPP and R-DCPP were observed.
<b>Immunogen</b>	Mecoprop-derivative coupled to carrier protein.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	N/A
<b>Clone</b>	IZC 338-02
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	0.01 M PB, pH 7.4, with 0.5 M NaCl.
<b>Concentration</b>	1 mg/mL, based on E(1%)=14.0 at A280
<b>Preservative</b>	None
<b>Storage</b>	2-8°C.

## BACKGROUND

**Introduction**

Mecoprop, or methylchlorophenoxypropionic acid (MCP), is a common general use herbicide found in many household weed killers and "weed-and-feed" type lawn fertilizers. It is primarily used to control broadleaf weeds. It is often used in combination with other chemically related herbicides such as 2,4-D, dicamba, and MCPA. Mecoprop is a mixture of two stereoisomers, with the (R)-(+)-enantiomer ("Mecoprop-P", "Duplosan KV") possessing the herbicidal activity. The United States Environmental Protection Agency has classified mecoprop as toxicity class III - slightly toxic.

**Keywords**

Mecoprop; MCP; methylchlorophenoxypropionic; (RS) 2 (4 chloro o tolyloxy) propionic acid ; 2 (4 chloro 2 methylphenoxy) propanoic acid; Kilprop; Mecopar; Triester II