



# Chimeric Human Anti-PEG monoclonal antibody (Set) (CABT-L3144)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Fusion protein of mouse clone 4.4 VH and VL with human IgG1, IgG2, IgG3, IgG4 and mouse clone BHQ5 VH and VL with human IgM.
<b>Target</b>	These antibodies can be detected with anti-human secondary antibodies. d4.4-IgG1, d4.4-IgG2, d4.4-IgG3 and d4.4-IgG4 can be used as reference standards to measure individual anti-PEG IgG subclasses whereas dBHQ5-IgM can be used as a reference standard for anti-PEG IgM responses.
<b>Source/Host</b>	Human
<b>Species Reactivity</b>	N/A
<b>Purification</b>	Affinity Purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	15 µg of each antibody
<b>Buffer</b>	Purified antibody supplied in 50% glycerol and phosphate buffered saline (0.14 M NaCl, 2.7 mM KCl, 1.5 mM KH <sub>2</sub> PO <sub>4</sub> , 8.1 mM Na <sub>2</sub> HPO <sub>4</sub> )
<b>Preservative</b>	0.04% Sodium Azide
<b>Storage</b>	Long time storage is recommended at -20°C.
<b>Ship</b>	Wet ice
<b>Warnings</b>	For research use only.

## BACKGROUND

**Introduction** PEG (polyethylene glycol) is a water-soluble, nontoxic, biocompatible polymer that has been

approved by the Food and Drug Administration (FDA) for human intravenous, oral and dermal applications. Attachment of PEG chains to proteins can reduce their immunogenicity, minimize proteolytic cleavage and increase their serum half-life. PEG has also been attached to small molecules and liposomes for more selective delivery. PEG-modification of superparamagnetic iron oxide and quantum dots can improve their biocompatibility and reduce non-specific uptake. PEG antibodies can be a vital tool for propelling therapeutics to market by serving as a positive control anti-drug antibody, measuring clearance of a drug, or simply as a QA release confirming PEGylation.

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**Keywords**

Polyethylene Glycol; PEG

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