



# Rat Anti-PEG monoclonal antibody, clone S44H [Biotin] (CABT-L3135)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This clone binds to the backbone of PEG molecules and can detect both linear and branched PEG.
<b>Specificity</b>	<p>S44H-biotin is a high affinity IgG anti-PEG rat monoclonal antibody that is labeled with biotin for quantification of PEGylated molecules in conjunction with streptavidin-labeled detection agents.</p> <p>S44H-biotin (for detection) works well in combination with Sbhq7 (for capture). This antibody is resistant to detergents that contain a ethylene oxide backbone such as Tween 20 and is therefore compatible with Tween-20 in washing buffers.</p>
<b>Target</b>	Polyethylene glycol
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	N/A
<b>Clone</b>	S44H
<b>Purification</b>	Affinity Purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	ELISA, FC
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg

<b>Buffer</b>	PBS
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Long term storage: Store at -20°C.
<b>Ship</b>	Dry ice

## BACKGROUND

<b>Introduction</b>	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.
<b>Keywords</b>	Polyethylene Glycol; PEG