



Rat Anti-PEG monoclonal antibody, clone Sbhq7 (DMABT-Z60567)

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

PRODUCT INFORMATION

Product Overview	<p>The antibody can be employed to detect and quantify PEG-modified molecules in immunoblots, by ELISA and by WB.</p> <p>This is a rat IgM monoclonal antibody with specificity for the repeating subunits present in PEG. This clone displays high affinity and is able to bind a broad range of PEG molecules. A sensitive ELISA can be achieved utilizing this clone as a capture antibody and 7.4-biotin as the detection reagent. CHAPS instead of Tween-20 should be used in all washing buffers.</p>
Specificity	<p>This is a rat IgM monoclonal antibody with specificity for the repeating subunits present in PEG. This clone displays high affinity and is able to bind a broad range of PEG molecules. A sensitive ELISA can be achieved utilizing this clone as a capture antibody and 7.4-biotin as the detection reagent. CHAPS instead of Tween-20 should be used in all washing buffers.</p>
Target	Polyethylene glycol
Isotype	IgM
Source/Host	Rat
Species Reactivity	N/A
Clone	Sbhq7
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	ELISA(Cap), WB
Format	Liquid
Concentration	Lot specific

Size	500 µg
Buffer	PBS
Preservative	0.1% Sodium Azide
Storage	Long time storage is recommended at -20°C.
Ship	Wet ice

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.

Keywords Polyethylene Glycol; PEG