

iLite[®] CD20 (-) Target Assay Ready Cells REF: BM5015

For research use only. Not for use in diagnostic procedures.

DESCRIPTION	<i>iLite[®]</i> CD20 (-) human cells (Ra cells are to be Assay Ready C CD20 antibodie Cells or with <i>iLit</i>	Target Assay Ready Cells are gen aji, ATCC# CCL-86) depleted of CD use as negative controls (-) of the ells for measuring the ADCC or AE s together with <i>iLite</i> [®] ADCC Effecto e [®] ADCP Effector Assay Ready Cel	etically engineered 20 expression. The positive (+) Target OCP activity of anti- or (V) Assay Ready Is, respectively.		
CONTENT	>250 µL of <i>iLite[®]</i> Assay Ready Cells suspended in cryoprotective medium from Gibco (cat no 12648-010).				
RECEIPT AND STORAGE	Upon receipt co frozen. Immedia -80 C or at lowe date shown. C thawing.	nfirm that adequate dry-ice is presentely transfer to -80°C storage. Cells remperature and are stable as suppells should be diluted and plated	nt, and the cells are should be stored at olied until the expiry immediately after		
BACKGROUND	The immune system uses various mechanisms to kill specific pathogens, infected cells, and cancer cells. Therapeutic antibodies act by binding to a cell surface receptor by the Fab domain resulting in induction/blocking of signaling events. However, Fc engineering strategies to increase the efficacy of anti-cancer antibodies are ongoing (1). The Fc-part of the antibody is involved in inducing antibody-dependent cellular cytotoxicity (ADCC), antibody-dependent cellular phagocytosis (ADCP), complement-dependent cytotoxicity (CDC), and programmed cell death (1).				
	Rituximab is a chimeric monoclonal antibody targeting CD20 which is a surface antigen primarily found on B-cells. Rituximab was the first therapeutic antibody approved by the FDA, in 1997, for treatment of chemotherapy resistant Non-Hodgkin B-cell lymphomas and today it is approved for several B-cell malignancies, inflammatory and autoimmune indications (2). ADCC as well as ADCP has been shown as one of the mechanisms of therapeutic action of Rituximab (3).				
APPLICATION	The <i>iLite</i> [®] CD20 (-) Target Assay Ready Cells can be used together with <i>iLite</i> [®] ADCC Effector (V), <i>iLite</i> [®] ADCP Effector and <i>iLite</i> [®] CD20 (+) Target Assay Ready Cells for the quantification ADCC and ADCP activity of anti-CD20 antibodies.				
	 Application notes for the following assays are available: Quantification of anti-CD20 ADCC activity (LABEL-DOC-0399) Quantification of anti-CD20 ADCP activity (LABEL-DOC-0583) 				
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LABEL-DOC-0371, 2.0

PRODUCT SPECIFICATION



RELATED	REF	Product name			
PRODUCTS	BM5001	iLite [®] ADCC Effector (V) Assay Ready Cells			
	BM5004	<i>iLite</i> [®] ADCP Effector Assay Ready Cells			
	BM5010	<i>iLite</i> [®] CD20 (+) Target Assay Ready Cells			
REFERENCES	 Liu R, Oldham RJ, Teal E, Beers SA, and Cragg MS. <i>Fc-Engineering for Modulated Effector Functions—Improving Antibodies for Cancer Treatment</i>. Antibodies. 9(4):64 (2020) Maloney DG et al. <i>IDEC-C2B8 (Rituximab) anti-CD20 monoclonal antibody therapy in patients with relapsed low-grade non-Hodgkin's lymphoma</i>. <i>Blood</i>, 15; 90(6):2188-95 (1997) VanDerMeid KR, Elliott MR, Baran AM et al., <i>Cellular Cytotoxicity of Next-Generation CD20 Monoclonal Antibodies</i>. Cancer Immunol Res.Oct;6(10):1150-1160 (2018) 				
SYMBOLS ON LABEL	LOT	Lot number	Temperature limitat	ion	
	REF	Catalogue number	Biological risk		
	Σ	Use by	Manufacturer		
PRECAUTIONS	For research use only. This product is intended for professional laboratory research use only. The data and results originating from using the product, should not be used either in diagnostic procedures or in human therapeutic applications. The cells included in the <i>iLite</i> ® CD20 (-) Target Assay Ready Cells are				
	a stable transfected cell line of human origin classified as a Class 1 Genetically Modified Microorganism. This is based on the conclusion that neither insert nor vector adds anything to the biosafety level since the cells cannot produce active virus. They should be handled in accordance with EU directive (2009/41/EC) and disposed of in a licensed contained-use facility in accordance with these regulations. When used in accordance with the manufacturer's product specification, the requirements of EC Directive 2009/41/EC on the				

Residues of chemicals and preparations generally considered as biohazardous waste and should be inactivated prior to disposal by autoclaving or using bleach. All such materials should be disposed of in accordance with established safety procedures.

contained-use of genetically modified microorganisms are deemed to

have been met.



PROPRIETARY INFORMATION

In accepting delivery of *iLite*[®] Assay Ready Cells the recipient agrees not to sub-culture these cells, attempt to sub-culture them or to give them to a third party, and only to use them directly in assays. *iLite*[®] cell-based products are covered by patents which is the property of Svar Life Science AB and any attempt to reproduce the delivered *Lite*[®] Assay Ready Cells is an infringement of these patents.

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