Datasheet: MCA1744

BATCH NUMBER 167829

Description:	MOUSE ANTI HUMAN CD66e
Specificity:	CD66e
Other names:	CEA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C365D3 (NCRC23)
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			1/1000
Immunohistology - Paraffin (1)	▪			1/1000
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)**This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% sodium azide (NaN_3)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	**UniProt:** P06731 Related reagents **Entrez Gene:** 1048 CEACAM5 Related reagents
Synonyms	CEA
RRID	AB_322726
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3NSI myeloma cell line.
Specificity	**Mouse anti Human CD66e antibody, clone C365D3 (NCRC23)** recognizes human Carcinoembryonic antigen-related cell adhesion molecule 5, also known as CD66e, carcinoembryonic antigen, Meconium antigen 100, CEA or CEACAM5. CD66e is a 702 amino acid ~77 kDa GPI anchored membrane protein containing 7 Ig-like domains. Mouse anti Human CD66e antibody, clone C365D3 does not cross-react with normal cross-reacting antigen (CD66c), or with biliary glycoprotein 1 (CD66a) as indicated by binding assays (Price 1988, note: in this study Mouse anti Human CD66e antibody, clone C365D3 is designated as clone 6 (from author)).
References	1. Seth, J. *et al.* (1988) Carcinoembryonic antigen. Lancet. 1 (8599): 1399. 2. Chao, A. *et al.* (2006) Molecular characterization of adenocarcinoma and squamous carcinoma of the uterine cervix using microarray analysis of gene expression. Int J Cancer. 119: 91-8. 3. Stern-Ginossar, N. *et al.* (2007) Intercellular transfer of carcinoembryonic antigen from tumor cells to NK cells. J Immunol. 179 (7): 4424-34. 4. Kalinina, T. *et al.* (2010) Establishment and characterization of a new human pancreatic adenocarcinoma cell line with high metastatic potential to the lung. BMC Cancer.10: 295. 5. Soucek, K. *et al.* (2010) Fetal colon cell line FHC exhibits tumorigenic phenotype, complex karyotype, and TP53 gene mutation. Cancer Genet Cytogenet. 197: 107-16. 6. Ferro, F. *et al.* (2011) Adipose tissue-derived stem cell in vitro differentiation in a three-dimensional dental bud structure. Am J Pathol.178: 2299-310. 7. Dallas, M.R. *et al.* (2012) Divergent roles of CD44 and carcinoembryonic antigen in colon cancer metastasis. FASEB J. 226: 2648-56. 8. Domenis, R. *et al.* (2015) Adipose tissue derived stem cells: in vitro and in vivo analysis of a standard and three commercially available cell-assisted lipotransfer techniques. Stem Cell Res Ther. 6: 2. 9. Wicklein, D. *et al.* (2018) CEACAM1 promotes melanoma metastasis and is involved in

the regulation of the EMT associated gene network in melanoma cells. Sci Rep. 8 (1): 11893.
10. Caponnetto, F. *et al.* (2020) Human Adipose-Derived Stem Cells in Madelung's Disease: Morphological and Functional Characterization. Cells: 10 (1): 44.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1744 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M426655:240213'

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