abcam

Product datasheet

Anti-CEACAM 5 + 6 antibody [MUS] ab4539

2 References

製品の概要

製品名	Anti-CEACAM 5 + 6 antibody [MUS]
製品の詳細	Mouse monoclonal [MUS] to CEACAM 5 + 6
由来種	Mouse
特異性	MUS reacts specifically with CEACAM 5 (CEA/CD66e) and CEACAM 6 (NCA/CD66c) transiently expressed on the cell surface of transfected BOSC23 cells as demonstrated by flow cytometry.
アプリケーション	**適用あり:** IHC-Fr, ELISA, Flow Cyt, WB
種交差性	**交差種:** Human
免疫原	Full length native Carcino Embryonic Antigen(partially purified) (Human) from a perchloric acid extract from liver metastases of colonic tumors (Schozel S *et al*.).
特記事項	**Antibodies produced from cDNA: Conventional technologies usually either generate antibodies against purified proteins, or against synthetic peptides based on amino acid sequences derived from DNA sequence data. Genetic immunization involves introducing the gene in the form of a cDNA directly into an animal which translates this cDNA into protein thus stimulating an immune response against the foreign protein. Although the synthetic peptide approach is comparable in speed, the quality of antibodies generated by genetic immunization is far superior. This is because the protein is made by the immunized animal, utilzing complex cellular mechanisms that allow it to gain a native conformation. Antibodies are then generated against a native protein, such as is found in the blood or tissues of its host species. Membrane-bound or secreted proteins often create problems for conventional antibody technology because in their native form, they are often modified by glycosylation, or in some cases exist as multiple membrane-spanning proteins that are not soluble following isolation or synthesis in recombinant systems. All of these problems are avoided if the immunized animal makes the protein itself. Antibodies generated by genetic immunization have been shown to have binding affinities to the protein in the sub-nanomolar range, which are approximately 100x higher than conventionally developed antibodies and much higher than single chain antibodies. Results confirm published data for much higher avidity of sera generated by genetic immunization as compared with that gained by immunization with a corresponding recombinant protein.** The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Constituent: PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	MUS
ミエローマ	unknown
アイソタイプ	IgG1
軽鎖の種類	unknown

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab4539の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Predicted molecular weight: 84,41 kDa. Predicted molecular weight Carcino Embryonic Antigen: 84 kDa. Predicted molecular weight CEACAM 6: 41 kDa

ターゲット情報

関連性

CEA-related cell adhesion molecules (CEACAM) belong to the carcinoembryonic antigen (CEA) family. It consists of seven CEACAM (CEACAM 1, CEACAM 3-CEACAM 8) and 11 pregnancy-specific glycoprotein (PSG1-PSG11) members. The CEA family proteins belong to the immunoglobulin (Ig) superfamily and are composed of one Ig variable like (IgV) and a varying number (0-6) of Ig constant-like (IgC) domains. CEACAM molecules are membrane-bound either via a transmembrane domain or a glycosyl phosphatidyl inositol (GPI) anchor. CEACAM molecules are differentially expressed in epithelial cells or in leucocytes. Over-expression of CEA/CEACAM 5 in tumors of epithelial origin is the basis of its wide-spread use as a tumor

	marker. CEACAM 6 expression is strongly up-regulated already during early stages of adenocarcinoma formation e.g. in colon. The function of CEA family members varies widely: they function as cell adhesion molecules, tumor suppressors, regulators of lymphocyte and dendritic cell activation, receptors of Neisseria species and other bacteria.
細胞内局在	Plasma membrane

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