Technical Data Sheet

Purified Mouse Anti-Human MUC2

Product Information

Material Number:	**555926**
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CCP58
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with the core peptide of the MUC2 protein, a member of a family of mucin glycoproteins that are characterized by high carbohydrate content, O-linked oligosaccharides, high molecular weight (>200 kD) and an amino acid composition rich in serine, threonin, proline and glycine. The core protein contains a domain of 23 amino-acid tandem repeats which function as multiple epitopes for the monoclonal antibody. Incomplete glycosylation of some tumor-associated mucins may lead to variable unmasking of the multiple peptide epitopes leading to the observed differences in staining intensity between normal and malignant tissues. This antibody has been shown to be relatively tissue specific, being associated predominantly with intestinal tissue and is highly reactive with colon and gastric tumors. The antibody is suitable for staining formalin-fixed, paraffin-embedded tissue sections following citrate pretreatment.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4°C.

Application Notes

Application

Immunohistochemistry-formalin (antigen retrieval required)	Routinely Tested
Immunohistochemistry-frozen	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
550337	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	1.0 ml	Polyclonal
550946	Streptavidin HRP	50 ml	(none)
550880	DAB Substrate Kit	500 tests	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Devine PL, Birrell GW, Whitehead RH, Harada H, Xing PX, McKenzie IF. Expression of MUC1 and MUC2 mucins by human tumor cell lines. *Tumour Biol.* 1992; 13(5):268-277.(Biology)

Xing PX, Prenzoska J, Layton GT, Devine PL, McKenzie IF. Second-generation monoclonal antibodies to intestinal MUC2 peptide reactive with colon cancer. *J Natl Cancer Inst.* 1992; 84(9):699-703.(Biology)

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