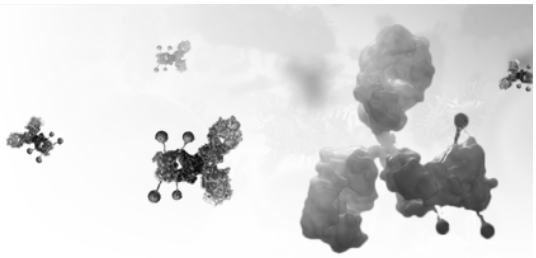

Mouse Anti-Intercalated DNA Monoclonal antibody, clone 503 (CABT-RM278)

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

PRODUCT INFORMATION

Specificity	DNA (Intercalated)
Target	Intercalated DNA
Immunogen	Ethidium Bromide intercalated calf thymus DNA
Isotype	IgG1, kappa
Source/Host	Mouse
Species Reactivity	Bovine
Clone	503
Purification	Protein G
Conjugate	unconjugated
Applications	IA
Format	Liquid
Concentration	1.29 mg/mL
Size	200 µg
Buffer	PBS, pH 7.4
Preservative	0.1% Sodium Azide
Storage	This product is stable (at least 1 year) at –20°C to –70°C. Aliquot to avoid multiple freeze/thaw

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

cycles.

BACKGROUND

Introduction	In biochemistry, intercalation is the insertion of molecules between the planar bases of deoxyribonucleic acid (DNA). This process is used as a method for analyzing DNA and it is also the basis of certain kinds of poisoning. Intercalation occurs when ligands of an appropriate size and chemical nature fit themselves in between base pairs of DNA. These ligands are mostly polycyclic, aromatic, and planar, and therefore often make good nucleic acid stains. Intensively studied DNA intercalators include berberine, ethidium bromide, proflavine, daunomycin, doxorubicin, and thalidomide. DNA intercalators are used in chemotherapeutic treatment to inhibit DNA replication in rapidly growing cancer cells.
Keywords	DNA; Intercalated DNA; Intercalated

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221