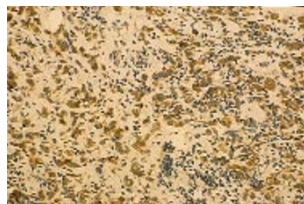


ON THE MARKET

ASSORTED APOPTOSIS ANTIBODIES



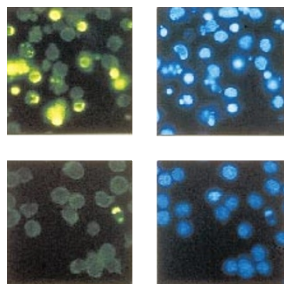
Breast carcinoma stained with FAP-1

Dako's new **apoptosis antibody**, monoclonal mouse anti-FAP-1 (clone 2C8), can be used on formalin-fixed, paraffin-embedded sections, cryostat sections and fixed-cell smears. FAP-1 protein is a protein tyrosine kinase that binds to the apoptotic mediator Fas. FAP-1 is thought to be an anti-apoptotic molecule and has been shown to interact with the carboxy terminal negative regulatory domain of the Fas receptor. It is postulated that FAP-1 inhibits Fas-induced cell death by interacting with the suppressive domain of Fas and blocking the Fas signal transduction events.

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New marker for detection of apoptosis/DNA damage

Alexis Biochemicals has a new **marker for the detection of apoptosis and DNA damage**. Monoclonal antibody to poly(ADP-ribose)(PAR) is suitable for detecting apoptotic cells using immunocytochemistry. PAR is synthesized by a wide range of poly(ADP-ribose) polymerases (PARPs) in response to DNA damage. PAR immunofluorescence is said to correlate well with other markers of apoptosis. In addition to this new monoclonal antibody, the company offers a full line of PARP-related products, including antibodies, enzymes, standards and PARP inhibitors.

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Trevigen offers a new **affinity-purified polyclonal antibody against human AP endonuclease (APE)**, also known as Ref-1, which may be used for immunocytochemistry and western blotting applications. APE is a multifunctional enzyme involved both in DNA repair and in facilitating the redox state of a number of DNA binding proteins. The DNA repair function of APE serves to cleave DNA at apurinic/aprimidinic sites forming nicks in DNA that are subsequently repaired by DNA polymerases and ligases. The second function is the regulation of several transcription factors through the redox stimulation of DNA binding activity. These transcription factors include FOS, JUN, NF- κ B and p53. The APE-related DNA repair activity has been demonstrated to be inactivated by phosphorylation, suggesting that this might be the mechanism by which the enzyme switches between the two functions. Additionally, expression levels of APE have been shown to be associated with apoptosis induction.

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TIME-SAVERS

Porvair Sciences offers **ultra-clean deep-well plates for use with HPLC autosamplers** capable of injecting directly from 96-well plates. Made of ultra-clean, medical-grade polypropylene, the plates are said to eliminate chromatographic contamination from plasticizer leachates, allowing use even with the most sensitive biological systems. Available in an expanded choice of volumes, including 350 μ l, 1 ml and 2 ml, the deep-well plates all use the universal 96-well format yet share the same external dimensions.

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CE MEETS MS

Beckman Coulter introduces the new P/ACE MDQ-Finnigan LCQ **CE/MS/MS system**, the result of a collaboration with ThermoQuest. The system combines the separation advantages of capillary electrophoresis with ion-trap mass spectrometry detection and has been developed for the analysis of basic pharmaceuticals and the characterization of peptide digests.

Moreover, Xcalibur Windows NT-based software from ThermoQuest integrates and controls the CE and MS systems.

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ELECTROPHORESIS CHAMBERS



Pore-gradient lipoprotein electrophoresis system

C.B.S. Scientific's introduces an **electrophoresis system for the resolution of lipoprotein subclasses (LDL, HDL)** based on particle size, using non-denatured pore gradient gel electrophoresis. The system is capable of accommodating up to four separate pre-cast or manual cast gels with dimensions of 82 x 82 x 5 mm (Alamo Gels Inc.), and is also suitable for standard PAGE and short DNA sequencing runs. It features precise temperature control, buffer recycling, an internal cooling chamber and interlocking safety cover.

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CHROMATOGRAPHY COLUMNS

TosoHaas has expanded its size-exclusion chromatography product line with the addition of the TSK-GEL Alpha series columns. The **size-exclusion chromatography columns**, packed with a new hydrophilic resin, expand the range of solvents that can be used with the same column. They are useful for separating polymers soluble in methanol and for performing size-exclusion chromatography in DMF, without the retardation or adsorption of polymers seen with PS/DVB resins. The company says that due to their wide separation range and good linearity, the columns are particularly suited to the separation of polar polymer samples.

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