POLYCLONAL RABBIT
Anti-Cytokeratin, Wide Spectrum Screening (WSS)
CODE NO. Z0622
LOT NO. 038
For In Vitro Diagnostic Use

Immunogen
Bovine muzzle epidermal keratin subunits of 58, 56 and 52 kD; less abundant subunits of 60, 51 and 48 kD.¹,²

Presentation
Rabbit anti-cytokeratin, WSS is an unfractionated rabbit antiserum in 0.05 M Tris-HCl, pH 7.6, and 15 mM sodium azide.
Total Protein Concentration: 68 mg/mL (Lowry)

Specificity
Rabbit anti-cytokeratin, WSS labels a variety of keratins representing a wide range of molecular weight proteins.

Reactivity
Normal Cells:
SKIN: depending on source either all epidermal layers or suprabasal only, all adnexa.
LUNG: epithelial cells of bronchial lumen, pneumocytes, mesothelium,
ESOPHAGUS: epithelium.
PANCREAS: ductal cells; islet cells negative.
LIVER: bile ducts; liver cells negative.
BREAST: myoepithelial cells.
DUODENUM: ducts and epithelium of urethra.
PITUITARY: unusual vacuole-like staining of cells.
KIDNEY: Bowman's capsule epithelium, proximal and distal tubules epithelial cells.³

Tumor Cells:
Rabbit anti-cytokeratin, WSS labels squamous cell and basal cell carcinomas, sebaceous adenoma of the skin, adenocarcinoma and squamous cell carcinoma of the lung, squamous cell carcinoma of the esophagus, adenocarcinoma of the breast, and transitional cell carcinoma of the kidney.³

All mesotheliomas stained consistently on tissue which was treated with trypsin. One gastrinoma was found to be negative.
Staining Procedure

Paraffin Sections

Rabbit anti-cytokeratin, WSS can be used on formalin-fixed, paraffin-embedded tissue sections. Pretreatment of tissue with proteolytic enzymes should be performed prior to staining.

A number of staining techniques are suitable as listed below:

- avidin-biotin complex procedure
- three-stage immunoperoxidase procedure
- peroxidase anti-peroxidase (PAP) procedure
- alkaline phosphatase anti-alkaline phosphatase (APAAP) procedure
- labelled streptavidin biotin (LSAB) procedure
- enhanced polymer (DAKO EnVision™ System) procedure

Rabbit anti-cytokeratin, WSS may be used at a dilution of 1:800 – 1:1200 in the LSAB method, determined on formalin-fixed, paraffin-embedded tissue. These are guidelines only; optimal dilutions should be determined by the individual laboratory.

Storage

Store at 2-8°C or -20°C. Avoid repeated freeze-thaw cycles.

References

1. Steinert PM. The extraction and characterization of bovine epidermal α-keratin. Biochem J 1975; 149:39