

## Cytokeratin clone 34betaE12

### Instructions For Use

#### Specification:

Anti-Cytokeratin, 34betaE12 is an antibody to high molecular weight cytokeratin that reacts with all squamous and ductal epithelium and stains carcinomas. This antibody recognizes cytokeratins 1,5,10, and 14 that are found in complex epithelia. Anti-Cytokeratin, 34beta E12 shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules or endometrial glands; there has been no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors and neuroendocrine tumors are unreactive with this antibody. Anti-Cytokeratin, 34beta E12 does label myoepithelial cells and has been shown to be useful in distinguishing prostatic adenocarcinoma from hyperplasia of the prostate. This antibody has also been useful in separating benign from malignant intraductal breast proliferations.

#### Availability:

Catalog No.	Contents	Volume
ILM3343-C01	Cytokeratin 34betaE12	0,1 ml concentrate
ILM3343-C05	Cytokeratin 34betaE12	0,5 ml concentrate
ILM3343-C1	Cytokeratin 34betaE12	1,0 ml concentrate

**Intended use:** For Research Use Only

**Reactivity:** Human, Mouse, Rat. Others not known.

**Clone:** 34betaE12

**Species of origin:** Mouse

**Isotype:** IgG<sub>1</sub>/κ

**Control Tissue:** Prostate carcinoma, skin

**Staining:** Cytoplasmic

**Immunogen:** Solubilized keratin extract from human stratum corneum

**Presentation:** Bioreactor Concentrate with 0.05% Azide, the ready-to-use antibody is diluted in Tris Buffer, pH 7.3-7.7, with 1% BSA and <0.1% Sodium Azide

#### Application and suggested dilutions:

Pretreatment: Heat induced epitope retrieval in 50 mM Tris-EDTA buffer pH9.0, for 15 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:100-1:400)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

#### References:

- 1) Wojno, KJ et al. Am J Surg Pathol 1995; 19:251-60.
- 2) Moinfar, F et al. Am J Surg Pathol 1999; 23:1048-58.
- 3) Yang, XJ et al. Am J Surg Pathol 1999; 23:147-52.

