



Cytokeratin 8/35 β H11

IHC of CK8/35 β H11 on anFFPE Prostatic Adenocarcinoma Tissue

Description Cytokeratin 8 belongs to the Type B (basic) subfamily of high molecular-weight keratins and exists in combination with cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in the majority of Adenocarcinomas and Ductal Carcinomas. It is absent in Squamous Cell Carcinomas. Hepatocellular Carcinomas are defined by the use of antibodies that recognize only cytokeratin polypeptides 8 and 18.

Anti-Cytokeratin 8/35 β H11 stains most Non-Squamous Epithelial tumors; Squamous tumors are negative for this antibody as a rule. This antibody stains Adenocarcinomas of the breast, ovary, gastrointestinal tract, thyroid, pancreas, bile duct, and salivary glands. This antibody does not react with skeletal muscle or nerve cells.

Antibody Type	Mouse Monoclonal	Clone	35 β H11
Isotype	IgM	Reactivity	Paraffin, Frozen
Localization	Cytoplasmic	Control	Prostate, Colon
Storage	Store at 2°-8°C	Stability	2 years

For long-term storage of the concentrated antibody, it is recommended that aliquots of the antibody be frozen at -20°C in glycerol 50% (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Dilute using an antibody diluent such as ImmunoDetector Protein Block/Antibody Diluent (BSB 0040 and BSB 0041) or ImmunoDNA Background Blocker (BSB 0103-BSB 0107).

Presentation Anti-Cytokeratin 8/35 β H11 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Availability	Catalog No.	Antibody Type	Dilution	Volume/QTY
	BSB 5421	Prediluted	Ready-To-Use	3.0 ml
	BSB 5422	Prediluted	Ready-To-Use	7.0 ml
	BSB 5423	Prediluted	Ready-To-Use	15.0 ml
	BSB 5424	Concentrated	1:50-1:200	0.1 ml
	BSB 5425	Concentrated	1:50-1:200	0.5 ml
	BSB 5426	Concentrated	1:50-1:200	1.0 ml
	BSB 5427	Control Slides		5

Note: For concentrated antibodies, please centrifuge prior to use to ensure recovery of all product.

- References**
1. Battifora H, *Am J Surg Pathol*. 1988;12:24
 2. Gown AM, et al. *Am J Clin Pathol*. 1985;84:413
 3. Knapp AC, et al. *Cell*. 1989;59:67-79
 4. Sunn TT et al. *J Invest Dermatol*. 1983;81:109s-115s
 5. Eichner R et al. *J Cell Biol*. 1984;98:1388-1396

Protocol Suggested protocol on reverse

Recommended Immunohistochemical Protocol

- Pretreatment**
1. Cut and mount 3-4 micron formalin-fixed paraffin-embedded tissues on positive charged slides.
 2. Air dry for 2 hours at 58° C.
 3. Deparaffinize, dehydrate and rehydrate tissues.
 4. Subject tissues to heat epitope retrieval using a suitable retrieval solution such as **ImmunoDNA Retriever with Citrate** (BSB 0020-BSB 0023) or **EDTA** (BSB 0030-BSB 0033).
 5. Any of three heating methods may be used:
 - a. **Electric Pressure Cooker**
Place standoff rack at base of pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high, and incubate for 15 minutes. Open and immediately transfer slides to room temperature.
 - b. **Water Bath Method**
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the **ImmunoDNA Retriever with Citrate** or **EDTA** in a water bath set at 95°-99° C. Incubate for 30-60 minutes.
 - c. **Conventional Steamer Method**
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the **ImmunoDNA Retriever with Citrate** or **EDTA** in a Steamer, cover and steam for 30-60 minutes.
 6. After heat treatment, transfer slides in **ImmunoDNA Retriever with Citrate** or **EDTA** to room temperature and let stand for 15-20 minutes.
 7. Wash slides with IHC wash buffer or DI water.
 8. Continue IHC staining protocol.

Immunohistochemical Protocol

Step	ImmunoDetector (AP or HRP)	PolyDetector (AP or HRP)
Peroxidase/AP Block	5 minutes	5 minutes
Primary Antibody	30 minutes	45 minutes
Secondary Biotinylated Link	10 minutes	Not Applicable
AP or HRP Label	10 minutes	45 minutes
Substrate-Chromogen	5-10 minutes	10 minutes
Counterstaining	Time varies with counterstain	Time varies with counterstain

