



Calretinin

IHC of Calretinin on an FFPE Mesothelioma Tissue

Description Calretinin is a vitamin D-dependent calcium-binding protein involved in calcium signaling. It is expressed in the central and peripheral nervous system and in many normal and pathological tissues. It stains Mesothelioma and can be used to help differentiate lung tumors. Calretinin is also considered an important diagnostic tool in the differential diagnosis of cystic and solid Ameloblastic Tumors.

Anti-calretinin has been shown to be useful in differentiating Mesothelioma from Adenocarcinomas of the lung and other sources. It is also useful in differentiating adrenal-cortical neoplasms from Pheochromocytomas

Antibody Type	Rabbit Monoclonal	Clone	SP13
Isotype	IgG	Reactivity	Paraffin, Frozen
Localization	Cytoplasmic , Nuclear	Control	Malignant Mesothelioma, Benign Mesothelial Cells
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 Calretinin is CA 19-9 is a rabbit 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 5127	Prediluted	Ready-To-Use	3.0 ml
	BSB 5128	Prediluted	Ready-To-Use	7.0 ml
	BSB 5129	Prediluted	Ready-To-Use	15.0 ml
	BSB 5130	Concentrated	1:100-1:500	0.1 ml
	BSB 5131	Concentrated	1:100-1:500	0.5 ml
	BSB 5132	Concentrated	1:100-1:500	1.0 ml
	BSB 5133	Control Slides		5

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

- References**
1. Barberis MC, Faleri M, et al. *Acta Cytol.* 1997;Nov-Dec;41(6):1757-61
 2. Doglioni C, et al. *Am J Surg Pathol.* 1996;Sep;20(9):1037-46
 3. Leers MP, et al. *Histopathology.* 1998;Mar;32(3):209-16
 4. Ordonez NG, *AM J Surg Pathol.* 1998;Oct;22(10):1203-14
 5. Ordonez NG, *Mod Pathol.* 1998;Oct;11(10):929-33

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

