

## Anti-Calretinin, rabbit monoclonal (BSR235)

BSH-4005-100 (0,1ml), BSH-4005-1 (1 ml)



<b>Clonality:</b>	Rabbit monoclonal antibody
<b>Clone:</b>	BSR235
<b>Application:</b>	IHC
<b>Species Reactivity:</b>	Human
<b>Control tissues:</b>	Appendix, adrenal gland
<b>Buffer:</b>	TRIS with 0.03% sodium azide, pH 7,2
<b>Storage:</b>	Store at 4°C

### Description

Calretinin is a calcium-binding protein that is expressed in neurons and in the central nervous system. Calretinin is also expressed in mesothelial cells and steroid-producing cells e.g., Leydig cells and adrenal cortical cells, as well as fat cells and some neuroendocrine cells. Calretinin is located in the nucleus and cytoplasm. Calretinin is expressed in most malignant mesotheliomas, and it a useful marker in its differential diagnosis (to differentiate between mesothelioma and carcinoma).

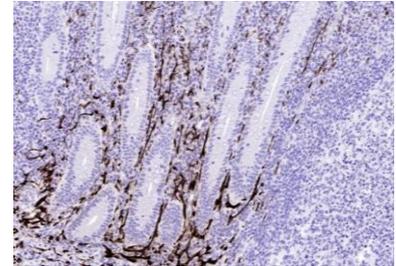
### Protocol

After paraffin removing and rehydration:

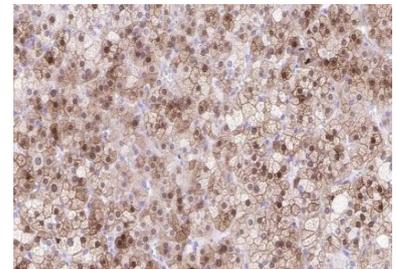
1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: Calretinin 1:100-1:300, 30 min.
4. Wash
5. 3% H<sub>2</sub>O<sub>2</sub>, 10 min.\*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10046), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. CuSO<sub>4</sub> -post enhancement, 5 min
13. Aqua
14. Counter staining in diluted Mayer, 1 min
15. Bluing, 7 min in tap water
16. Dehydration, clearing and mounting

Dilution of this concentrated antibody depends on the detection system used and the final working dilution need to always be determined by the user.

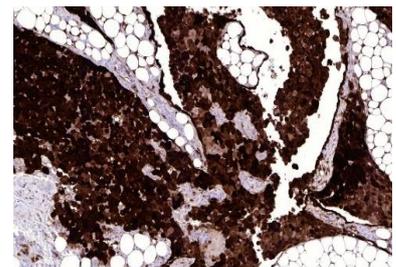
\* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



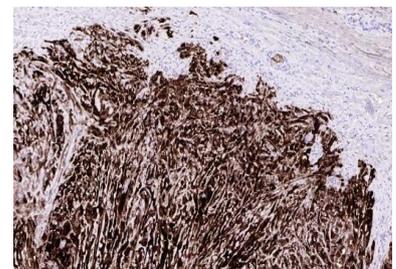
a)



b)



c)



d)

**Calretinin stained tissue sections.** Appendix (a), adrenal gland (b), and mesotheliomas (b, and c) were stained using calretinin antibody (Clone: BSR235) with a 1:100 dilution. Neuronal cells exhibit strong staining for calretinin in the stroma as well as in the muscular layer of the appendix (ganglion cells and axons of neuronal cells) (a). The adrenal gland is a low-calretinin containing tissue and exhibits weak to moderate nuclear and cytoplasmic staining (b). A strong staining pattern was observed in malignant mesothelioma (c and d). Weak staining was observed in the nuclei of fat cells (c).