

**bsm-41463M****[ Primary Antibody ]**

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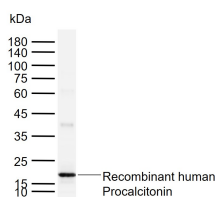
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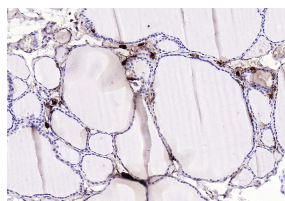
400-901-9800

**Procalcitonin (PCT) Mouse mAb****— DATASHEET —**

<b>Host:</b> Mouse	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:400-800) <b>IF</b> (1:100-500)
<b>Clonality:</b> Monoclonal	<b>CloneNo.:</b> 2F2-B4	
<b>GeneID:</b> 796	<b>SWISS:</b> P01258	
<b>Target:</b> Procalcitonin (PCT)		
<b>Immunogen:</b> Recombinant human Procalcitonin(PCT) : 26-141/141 .		
<b>Purification:</b> affinity purified by Protein A		<b>Reactivity:</b> Human
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		<b>Predicted MW.:</b> 13 kDa
<b>Background:</b> Procalcitonin (PCT) is a peptide precursor of the hormone calcitonin, the latter being involved with calcium homeostasis. It arises once preprocalcitonin is cleaved by endopeptidase. It is composed of 116 amino acids and is produced by parafollicular cells (C cells) of the thyroid and by the neuroendocrine cells of the lung and the intestine.		<b>Subcellular Location:</b> Secreted

**— VALIDATION IMAGES —**

Sample: Lane 1: Recombinant human Procalcitonin, N-His Primary: Anti-Procalcitonin (PCT) (bsm-41463M) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 13 kDa  
 Observed band size: 17 kDa



Paraformaldehyde-fixed, paraffin embedded (human thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Procalcitonin (PCT)) Monoclonal Antibody, Unconjugated (bsm-41463M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=4.3]** Yuxin Tian. et al. Rapid detection of procalcitonin using dual-color carbon quantum dots as fluorescent probes in FRET assay. SPECTROCHIM ACTA A. 2025 Oct;338:126207 ;Human. 40215845