

Recombinant Rat S100g, His-tagged

Cat. No. S100g-250R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CaBP9K (His-tagged) produced in <i>E. Coli</i> contains 79 amino acids and has a molecular mass of 9 kDa. Recombinant CaBP9K is purified by proprietary chromatographic techniques.
Species	Rat
Source	E.coli
Description	CABP9K (CALB3 or CABP1; mouse, rat, and human 79 aa; chromosome Xp; ~9 kDa) is a cytosolic Ca-binding protein initially found in rat pancreas. It is also expressed in intestine, placenta, uterus and kidney. Its expression is controlled by vitamin D and sex hormone in a tissue specific manner. In keeping with its role in Ca-transport, its expression is highest in duodenal villus enterocytes. It is further shown that CABP9K is only expressed in differentiated enterocytes. CABP9K gene also contains Cdx2-homeoprotein binding sites, and that Cdx2 may play a crucial role in CABP9K transcription.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	The protein was lyophilized from a concentrated solution (1mg/ml) containing 100mM Phosphate buffer, pH 7.3.
Purity	Greater than 90% as determined by: Analysis by reducing and non-reducing SDS-PAGE Coomassie.

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Solubility It is recommended to reconstitute the lyophilized CABP9K in sterile 18MΩ-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

Stability Lyophilized CABP9K although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CABP9K should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name [S100g S100 calcium binding protein G \[Mus musculus \]](#)

Synonyms S100g; S100 calcium binding protein G; CABP1; Calb3; Cabp9k; AU042539; CaBP-D9K; Calbindin D9k

Gene ID [12309](#)

mRNA Refseq [NM_009789](#)

Protein Refseq [NP_033919](#)

UniProt ID [P97816](#)

Chromosome Location X F4

Function calcium ion binding; vitamin D binding

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