



# Anti-BTC polyclonal antibody [Biotin] (DPABY-660)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Betacellulin (BTC) is a member of the EGF family of cytokines that also includes EGF, TGF- $\alpha$ , Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. At the amino acid sequence level, human mature BTC protein exhibits 80% identity with mouse BTC protein. BTC is expressed in most tissues including kidney, uterus, liver and pancreas. It is also present in body fluids, including serum, milk, and colostrum.
<b>Specificity</b>	Detects mouse Betacellulin/BTC in ELISAs and Western blots. In sandwich immunoassays, less than 0.02% cross-reactivity with recombinant mouse (rm)ErbB4, rmEGF R, rmAR, recombinant human (rh)BTC, rhTGF- $\alpha$ , and rhHB-EGF is observed.
<b>Immunogen</b>	E. coli-derived recombinant mouse Betacellulin/BTC. Asp32-Gln118 Accession Number Q543J8
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Mouse
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, Immunohistochemistry, ELISA Detection (Matched Pair)
<b>Format</b>	Liquid
<b>Size</b>	50 $\mu$ g
<b>Buffer</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with BSA as a carrier protein.

<b>Preservative</b>	None
<b>Storage</b>	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 °C as supplied.</p> <p>1 month, 2 to 8 °C under sterile conditions after reconstitution.</p> <p>6 months, -20 to -70 °C under sterile conditions after reconstitution.</p>

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Btc betacellulin, epidermal growth factor family member [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	BTC
<b>Synonyms</b>	BTC; betacellulin, epidermal growth factor family member; Bcn; betacellulin; probetacellulin;
<b>Entrez Gene ID</b>	<a href="#">12223</a>
<b>Protein Refseq</b>	<a href="#">NP_031594</a>
<b>UniProt ID</b>	<a href="#">Q05928</a>
<b>Chromosome Location</b>	5 E2; 5 44.78 cM
<b>Pathway</b>	Adaptive Immune System; Constitutive PI3K/AKT Signaling in Cancer; DAP12 interactions; DAP12 signaling; Disease; Downstream signal transduction; Downstream signaling events of B Cell Receptor (BCR); Downstream signaling of activated FGFR;
<b>Function</b>	epidermal growth factor receptor binding; growth factor activity;