

**Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE)  
Recombinant Antibody  
Catalog # APR10923****Specification**

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**Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P51654</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	150.85 KDa

**Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) - Additional Information****Target/Specificity**

GPC3 / Glypican-3

**Endotoxin**

&lt; 0.001EU/ µg,determined by LAL method.

**Conjugation**

MMAE

**Expression system**

CHO Cell

**Format**

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

**Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) - Protein Information****Name** GPC3**Synonyms** OCI5**Function**

Cell surface proteoglycan (PubMed:<a href="http://www.uniprot.org/citations/14610063" target="\_blank">14610063</a>). Negatively regulates the hedgehog signaling pathway when attached via the GPI- anchor to the cell surface by competing with the hedgehog receptor PTC1 for binding to hedgehog proteins (By similarity). Binding to the hedgehog protein SHH triggers internalization of the complex by endocytosis and its subsequent lysosomal degradation (By similarity). Positively regulates the canonical Wnt signaling pathway by binding to the Wnt receptor Frizzled and stimulating the binding of the Frizzled receptor to Wnt ligands (PubMed:<a href="http://www.uniprot.org/citations/16227623" target="\_blank">16227623</a>, PubMed:<a href="http://www.uniprot.org/citations/24496449" target="\_blank">24496449</a>). Positively

regulates the non-canonical Wnt signaling pathway (By similarity). Binds to CD81 which decreases the availability of free CD81 for binding to the transcriptional repressor HHEX, resulting in nuclear translocation of HHEX and transcriptional repression (By similarity). Inhibits the dipeptidyl peptidase activity of DPP4 (PubMed:<a href="http://www.uniprot.org/citations/17549790" target="\_blank">17549790</a>). Plays a role in limb patterning and skeletal development by controlling the cellular response to BMP4 (By similarity). Modulates the effects of growth factors BMP2, BMP7 and FGF7 on renal branching morphogenesis (By similarity). Required for coronary vascular development (By similarity). Plays a role in regulating cell movements during gastrulation (By similarity).

#### Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:P13265}; Extracellular side {ECO:0000250|UniProtKB:P13265}

#### Tissue Location

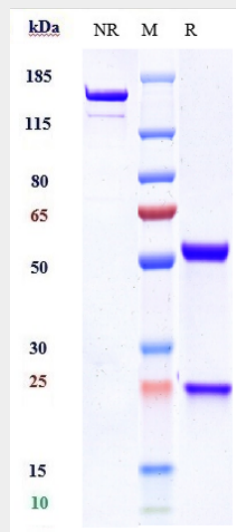
Detected in placenta (at protein level) (PubMed:32337544). Highly expressed in lung, liver and kidney

### Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) - Protocols

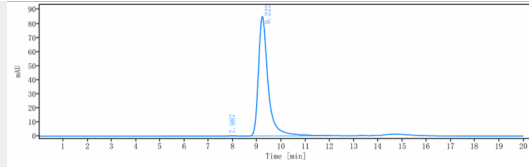
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

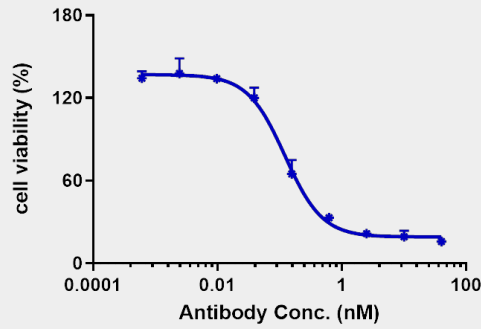
### Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) - Images



Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-GPC3 / Glypican-3 Reference Antibody (Codrituzumab-MMAE) is more than 99.73% ,determined by SEC-HPLC.



The killing ratio Codrituzumab-MMAE by HuH-7 increased with the increase of antibody concentration, and the killing Rate (%) reached 130% at antibody concentration of 40 nM.