

## Product datasheet for **TA814203**

### Perforin (PRF1) Mouse Monoclonal Antibody [Clone ID: OTI10A2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10A2
Applications:	IHC
Recommended Dilution:	IHC 1:75
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 351-555 of human Perforin-1 (NP_005032) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	61.38 kDa
Gene Name:	perforin 1
Database Link:	<a href="#">NP_005032</a> <a href="#">Entrez Gene 5551 Human</a> <a href="#">P14222</a>



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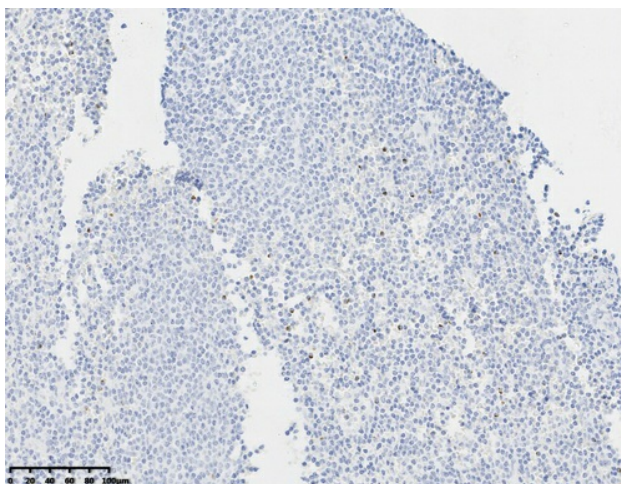
**Background:** This gene encodes a protein with structural similarities to complement component C9 that is important in immunity. This protein forms membrane pores that allow the release of granzymes and subsequent cytolysis of target cells. Whether pore formation occurs in the plasma membrane of target cells or in an endosomal membrane inside target cells is subject to debate. Mutations in this gene are associated with a variety of human disease including diabetes, multiple sclerosis, lymphomas, autoimmune lymphoproliferative syndrome (ALPS), aplastic anemia, and familial hemophagocytic lymphohistiocytosis type 2 (FHL2), a rare and lethal autosomal recessive disorder of early childhood. [provided by RefSeq, Aug 2017]

**Synonyms:** HPLH2; P1; PFP

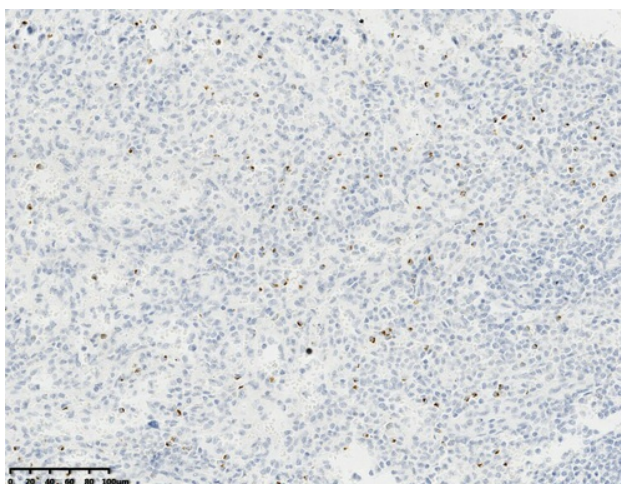
**Protein Families:** Druggable Genome

**Protein Pathways:** Allograft rejection, Autoimmune thyroid disease, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis

### Product images:



Immunohistochemical staining of paraffin-embedded Human Lymphoma tissue using anti-Perforin-1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human spleen tissue within the normal limits using anti-Perforin-1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.