

## Product datasheet for **AP07363PU-N**

### **TIM 4 (TIMD4) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunocytochemistry.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot:</b> 1 - 2 µg/ml.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide - KLH conjugated corresponding to a 16 amino acid peptide from near the center of Human TIM-4
Specificity:	This antibody recognizes T-cell Immunoglobulin And Mucin Domain Containing 4 (TIMD4)
Formulation:	PBS containing 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or in aliquots at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	T-cell immunoglobulin and mucin domain containing 4
Database Link:	<a href="#">Entrez Gene 91937 Human Q96H15</a>



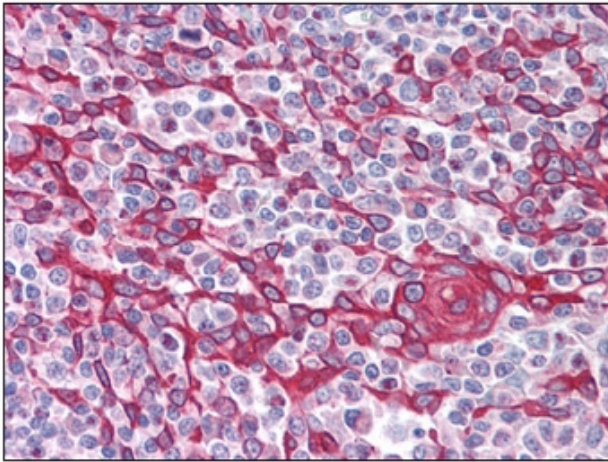
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**Background:**

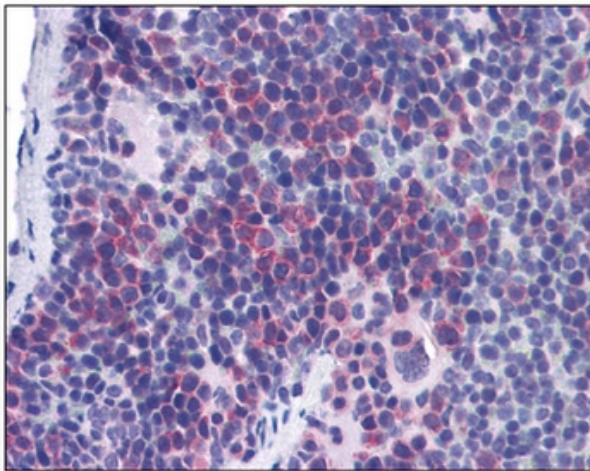
The T cell immunoglobulin and mucin domain containing protein (TIM) family encodes cell surface receptors that are involved in the regulation of T helper (Th) -1 and -2 cell-mediated immunity. Studies have shown that TIM 4, which is preferentially expressed on macrophages and dendritic cells, is the natural ligand of TIM 1, and that this binding leads to T-cell expansion and cytokine production. Unlike other members of the TIM family, TIM 4 lacks a putative tyrosine phosphorylation signal sequence in its intracellular domain (Kuchroo et al, 2003). The TIM 4 gene maps to a locus associated with predisposition to asthma in both mice and humans and with its connection to TIM 1-triggered Th2 responsiveness, may be considered as a candidate disease/predisposition gene for asthma (Shakhov et al 2004).

**Synonyms:**

TIMD-4, TIM4, TIM-4, T-cell membrane protein 4

**Product images:**

Immunohistochemistry: TIM4 Antibody staining of Formalin-Fixed, Paraffin-Embedded Human Thymus at 5 ug/ml followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: TIM4 Antibody staining of Formalin-Fixed, Paraffin-Embedded Mouse Spleen at 5 ug/ml followed by biotinylated goat anti-rabbit IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.