

**TNFRSF14 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9094c**

**Specification**

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**TNFRSF14 Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">O92956</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	210-236

**TNFRSF14 Antibody (Center) - Additional Information**

**Gene ID** 8764

**Other Names**

Tumor necrosis factor receptor superfamily member 14, Herpes virus entry mediator A, Herpesvirus entry mediator A, HveA, Tumor necrosis factor receptor-like 2, TR2, CD270, TNFRSF14, HVEA, HVEM

**Target/Specificity**

This TNFRSF14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 210-236 amino acids from the Central region of human TNFRSF14.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TNFRSF14 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**TNFRSF14 Antibody (Center) - Protein Information**

**Name** TNFRSF14 ([HGNC:11912](#))

**Function** Receptor for four distinct ligands: The TNF superfamily members TNFSF14/LIGHT and homotrimeric LTA/lymphotoxin-alpha and the immunoglobulin superfamily members BTLA and CD160, altogether defining a complex stimulatory and inhibitory signaling network (PubMed:[10754304](#), PubMed:[18193050](#), PubMed:[23761635](#), PubMed:[9462508](#)). Signals via the TRAF2-TRAF3 E3 ligase pathway to promote immune cell survival and differentiation (PubMed:[19915044](#), PubMed:[9153189](#), PubMed:[9162022](#)). Participates in bidirectional cell-cell contact signaling between antigen presenting cells and lymphocytes. In response to ligation of TNFSF14/LIGHT, delivers costimulatory signals to T cells, promoting cell proliferation and effector functions (PubMed:[10754304](#)). Interacts with CD160 on NK cells, enhancing IFNG production and anti-tumor immune response (PubMed:[23761635](#)). In the context of bacterial infection, acts as a signaling receptor on epithelial cells for CD160 from intraepithelial lymphocytes, triggering the production of antimicrobial proteins and pro-inflammatory cytokines (By similarity). Upon binding to CD160 on activated CD4+ T cells, down- regulates CD28 costimulatory signaling, restricting memory and alloantigen-specific immune response (PubMed:[18193050](#)). May interact in cis (on the same cell) or in trans (on other cells) with BTLA (By similarity) (PubMed:[19915044](#)). In cis interactions, appears to play an immune regulatory role inhibiting in trans interactions in naive T cells to maintain a resting state. In trans interactions, can predominate during adaptive immune response to provide survival signals to effector T cells (By similarity) (PubMed:[19915044](#)).

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein

#### **Tissue Location**

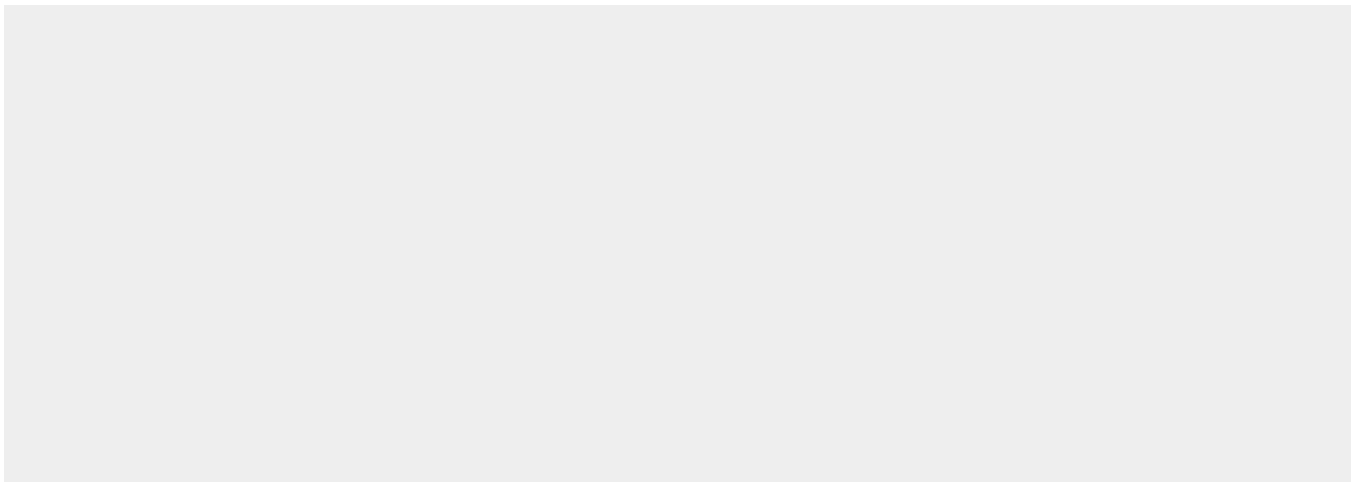
Widely expressed, with the highest expression in lung, spleen and thymus. Expressed in a subpopulation of B cells and monocytes (PubMed:[18193050](#)). Expressed in naive T cells (PubMed:[19915044](#)).

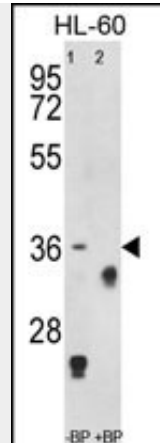
#### **TNFRSF14 Antibody (Center) - Protocols**

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

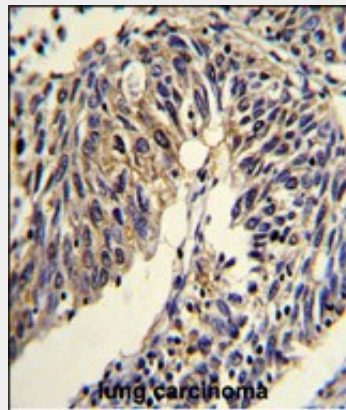
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **TNFRSF14 Antibody (Center) - Images**

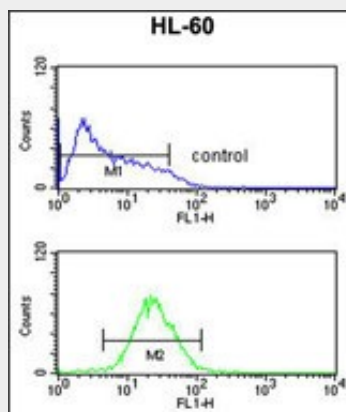




Western blot analysis of anti-TNFRSF14 Antibody (Center) Pab (Cat. #AP9094c) pre-incubated without (lane 1) and with (lane 2) blocking peptide in HL-60 cell line lysate. TNFRSF14 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with TNFRSF14 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



TNFRSF14 Antibody (Center) (Cat. #AP9094c) flow cytometric analysis of HL-60 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

**TNFRSF14 Antibody (Center) - Background**

TNFRSF14 is a member of the TNF-receptor superfamily. This receptor was identified as a cellular

mediator of herpes simplex virus (HSV) entry. Binding of HSV viral envelope glycoprotein D (gD) to this receptor protein has been shown to be part of the viral entry mechanism. The cytoplasmic region of this receptor was found to bind to several TRAF family members, which may mediate the signal transduction pathways that activate the immune response.

#### **TNFRSF14 Antibody (Center) - References**

Dubois,P.C., et.al., Nat. Genet. 42 (4), 295-302 (2010)  
Davila,S., et.al., Genes Immun. (2010) In press