# Recombinant B7-H4 Monoclonal Antibody

**catalog number:** **AN301876L**

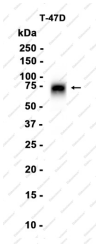
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human;Mouse |
| **Immunogen** | Recombinant protein of human B7-H4 |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C211498 |
| **Purification** | Protein A affinity purification |
| **Conjugation** | Unconjugated |
| **Buffer** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:1000 |
| **IHC-P** | 1:100 |
| **ICC** | 1:50 |
| **IP** | 1:20-1:50 |
| **FCM** | 1:200-1:500 |

## Data




Western blot analysis of T-47D cell lysates using B7-H4 Antibody (AN301876L) at a dilution of 1:1000.

**Observed-MW:75 kDa**

**Calculated-MW:31 kDa**

## Preparation & Storage

| | |
|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles. |
| **Shipping** | Ice bag |

## Background

B7 homolog 4 (B7-H4), also known as VTCN1, is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. B7-H4 protein contains two extracellular Ig-like V-type domains, a transmembrane domain, and a short, two amino acid intracellular domain. The B7-H4 protein is shown to inhibit T cell activation, proliferation, and cytokine production. Although B7-H4 mRNA is widely expressed, B7-H4 protein is restricted to antigen presenting cells and B cells. The B7-H4 protein is also found in several tumor types, including ovarian cancer and breast cancer. Research studies indicate that B7-H4 protein is present on the surface of ovarian tumor cells, and that targeted inhibition of B7-H4 using recombinant antibodies restores T cell activation pathways. These studies suggest some potential therapeutic value in blocking B7-H4 function and restoring T cell function in


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