

## EP-CAM Polyclonal Antibody

<b>Catalog No :</b>	YT1572
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	Ep-CAM
<b>Gene Name :</b>	EPCAM
<b>Protein Name :</b>	Epithelial cell adhesion molecule
<b>Human Gene Id :</b>	4072
<b>Human Swiss Prot No :</b>	P16422
<b>Mouse Swiss Prot No :</b>	Q99JW5
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human TACD1. AA range:116-165
<b>Specificity :</b>	EP-CAM Polyclonal Antibody detects endogenous levels of EP-CAM protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	34kD

**Background :**

This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy. [provided by RefSeq, Dec 2008],

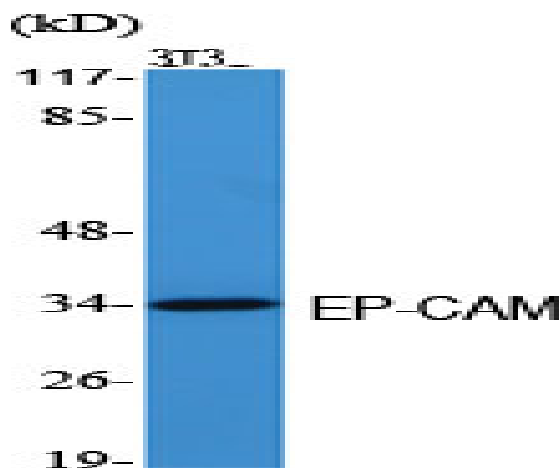
**Subcellular Location :**

Lateral cell membrane ; Single-pass type I membrane protein . Cell junction, tight junction . Colocalizes with CLDN7 at the lateral cell membrane and tight junction. .

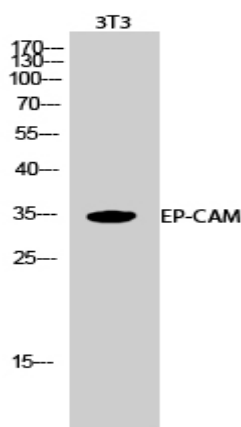
**Expression :**

Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC). Levels rapidly diminish as soon as ESC's differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.

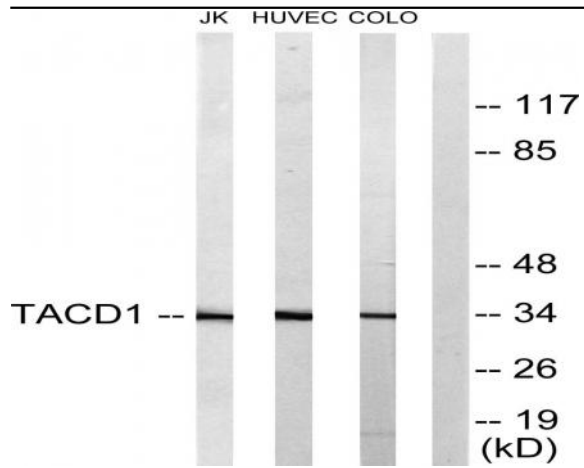
## Products Images



Western blot analysis of various cells using EP-CAM Polyclonal Antibody diluted at 1:2000



Western blot analysis of 3T3 cells using EP-CAM Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from Jurkat, HUVEC, and COLO205 cells, using TACD1 Antibody. The lane on the right is blocked with the synthesized peptide.