### CPTC-ITGAM-1 (CAB080213)

#### Uniprot ID: P11215

Protein name: ITAM\_HUMAN Full name: Integrin alpha-M

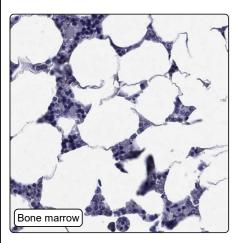
**Tissue specificity**: Predominantly expressed in monocytes and granulocytes (PubMed:1346576). Expressed in neutrophils (at protein level) (PubMed:21193407). **Function**: Integrin ITGAM/ITGB2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles and pathogens (PubMed:9558116, PubMed:20008295). It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin ITGAM/ITGB2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. Regulates neutrophil migration (PubMed:28807980). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed:21193407). May regulate phagocytosis-induced apoptosis in extravasated neutrophils (By similarity). May play a role in mast cell development (By similarity). Required with TYROBP/DAP12 in microglia to control production of microglial superoxide ions which promote the neuronal apoptosis that occurs during brain development (By similarity).

#### Subcellular location:

Cell membrane (*experimental evidence*) (Topo: Single-pass type I membrane protein (*curator inference*)) Membrane raft (*experimental evidence*) (Topo: Single-pass type I membrane protein (*curator inference*)) **Protein existence**: Experimental evidence at protein level

Comment:

## Immunohistochemistry



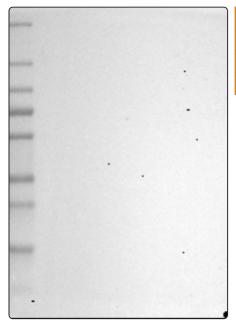
#### Immunofluorescence

U-2 OS	

IHC protocol:	HIER pH6, Dilution 1:250	
IHC test staining:	Nuclear positivity in few tissues, negative in bone marrow.	
Literature conformance:	Not consistent with gene/protein characterization data	
Literature significance:		
RNA similarity:	Very low consistency between antibody staining and RNA expression data	
RNA tissue specificity:	Tissue enriched (bone marrow)	
RNA tissue distribution:	Detected in many	
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern	
IHC fail comment:	ANTIBODY FAILED: Improbable histological location,Not consistent with RNA	

IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Negative
IF in U-2 OS:	Negative

# Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10	
WB Lanes:	Marker (1), RT4 (2), U-251 MG (3), Plasma (4), Liver (5), Tonsil (6)	
WB Target weight (kDa):	12, 18, 127, 127	
WB Validation:	Uncertain (No bands detected.)	