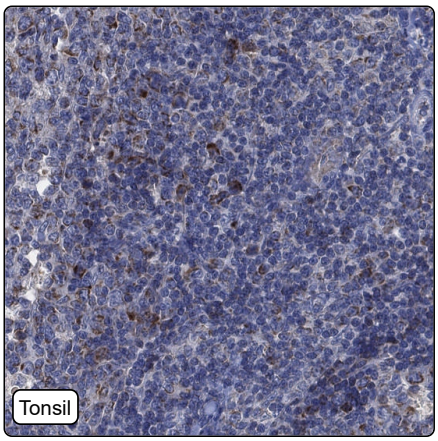
CPTC-SIGLEC9-1 (CAB080397)

Uniprot ID: Q9Y336
Protein name: SIGL9_HUMAN
Full name: Sialic acid-binding Ig-like lectin 9
Tissue specificity: Expressed by peripheral blood leukocytes (neutrophils and monocytes but not eosinophils). Found in liver, fetal liver, bone marrow, placenta, spleen and in lower levels in skeletal muscle, fetal brain, stomach, lung, thymus, prostate, brain, mammary, adrenal gland, colon, trachea, cerebellum, testis, small intestine and spinal cordon.
Function: Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,3-or alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface.
Subcellular location:
Membrane (Topo: Single-pass type I membrane protein)
Protein existence: Experimental evidence at protein level

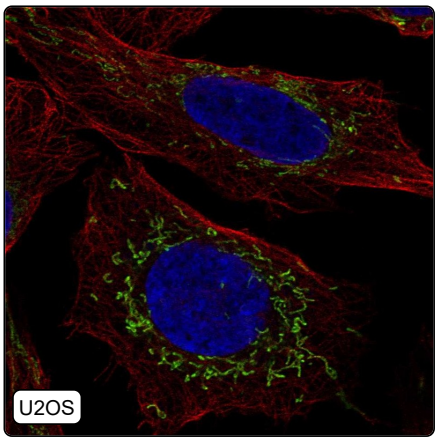
Comment:

Immunohistochemistry



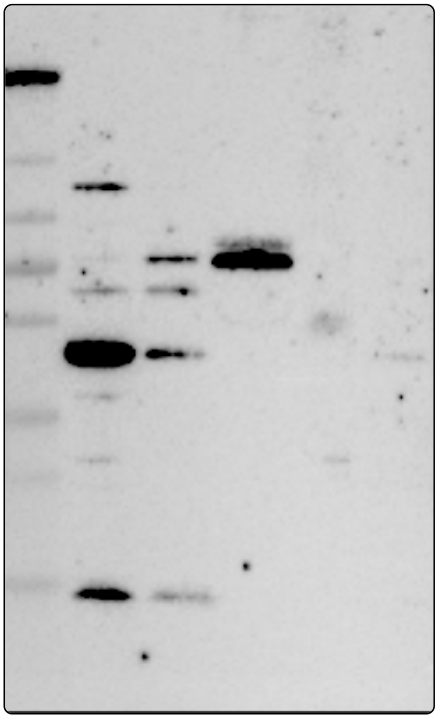
IHC protocol:	HIER pH6, Dilution 1:900
IHC test staining:	Cytoplasmic positivity in peripheral blood leukocytes.
Literature conformance:	Consistent with extensive gene/protein characterization data
Literature significance:	
RNA similarity:	No tissue staining or RNA expression data available for comparison
RNA tissue specificity:	Tissue enhanced (lymphoid tissue)
RNA tissue distribution:	Detected in many
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern

Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Mitochondria - 8: **Approved** (auto)
IF additional location:	
IF approved for publication on HPA:	No
IF in THP-1:	Mitochondria
IF in U2OS:	Mitochondria

Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10
WB Lanes:	Marker (1), RT-4 (2), U-251MG (3), Plasma (4), Liver (5), Tonsil (6)
WB Target weight (kDa):	21, 50, 52
WB Validation:	Supported (Band of predicted size in kDa (+/-20%) with additional bands present.)