

Product datasheet for **UM500043**

L1CAM Mouse Monoclonal Antibody [Clone ID: UMAB47]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB47
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	IHC 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human L1CAM (NP_000416) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	137.8 kDa
Gene Name:	L1 cell adhesion molecule
Database Link:	NP_000416 Entrez Gene 16728 Mouse Entrez Gene 50687 Rat Entrez Gene 3897 Human P32004



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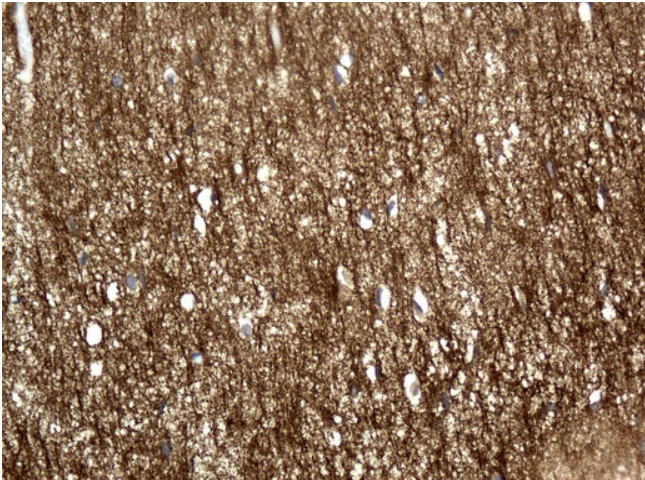
Background: The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in the gene cause three X-linked neurological syndromes known by the acronym CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of a neuron-specific exon is thought to be functionally relevant. [provided by RefSeq, Jul 2008]

Synonyms: CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAM-L1; N-CAML1; NCAM-L1; S10; SPG1

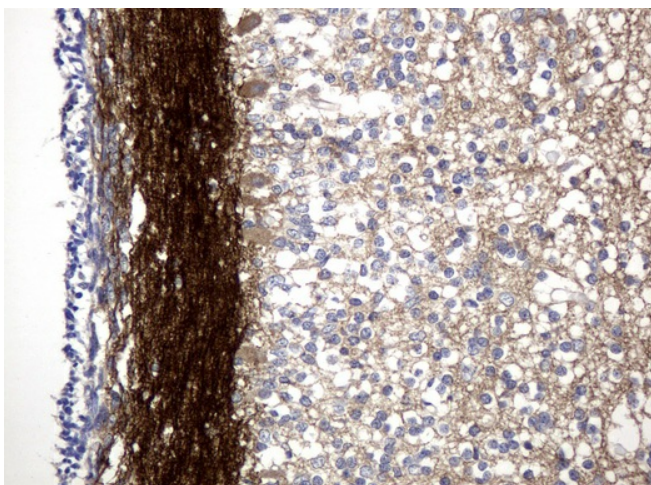
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Axon guidance, Cell adhesion molecules (CAMs)

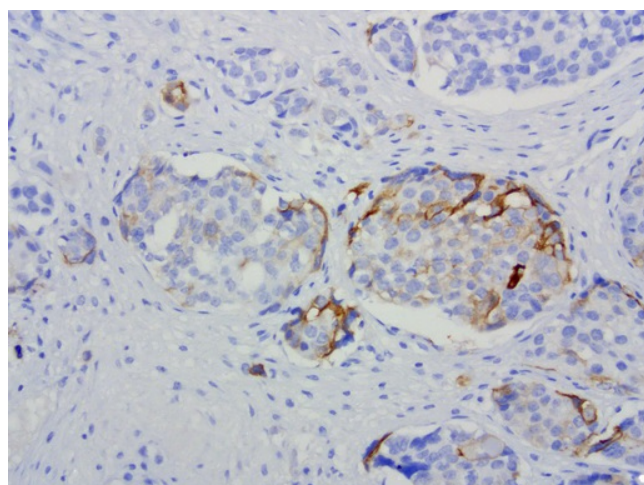
Product images:



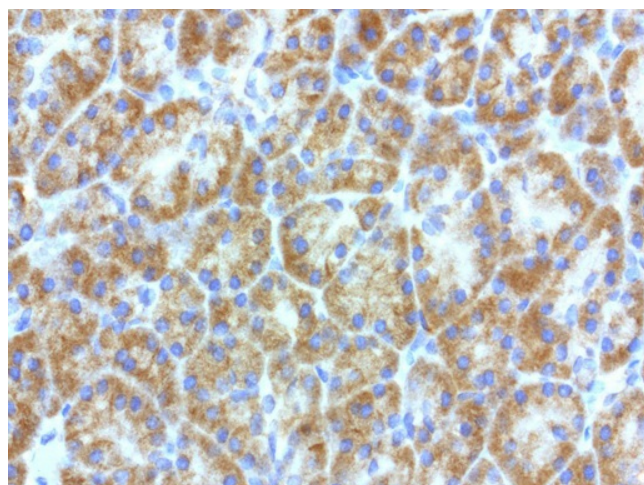
Immunohistochemical staining of paraffin-embedded Human embryonic brain cortex tissue using anti-L1CAM mouse monoclonal antibody. (UM500043; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



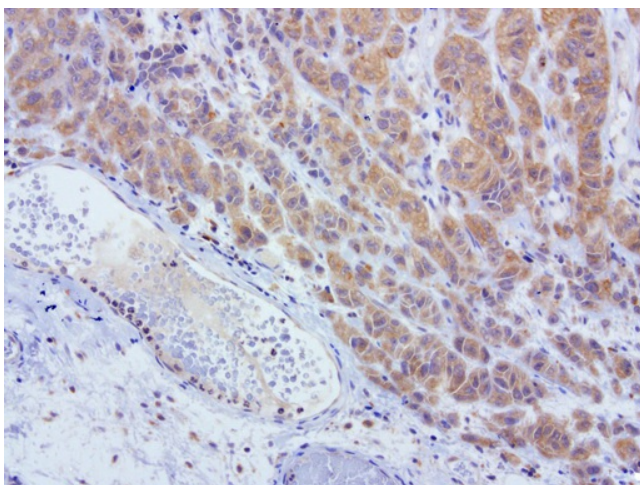
Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum using anti-L1CAM mouse monoclonal antibody. (UM500043; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



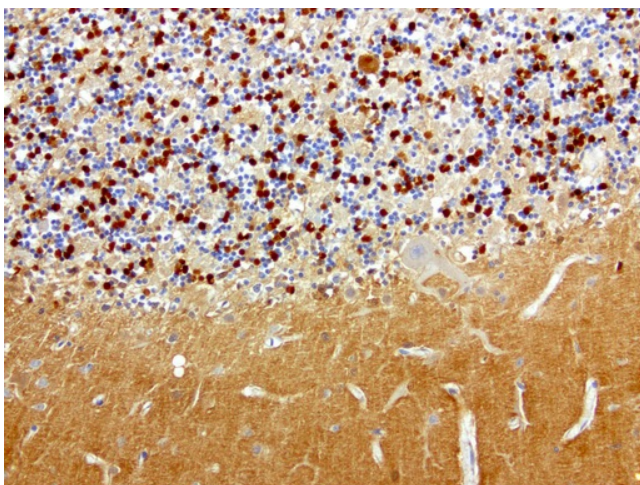
Immunohistochemical staining of paraffin-embedded human ovarian carcinoma using anti-L1CAM clone UMAB47 mouse monoclonal antibody at 1:200 with Polink2 Broad HRP DAB detection kit (UM500043); heat-induced epitope retrieval with citrate buffer, pH6.0 at 95-100°C. Cytoplasmic and membraneous staining is seen in tumor cells.



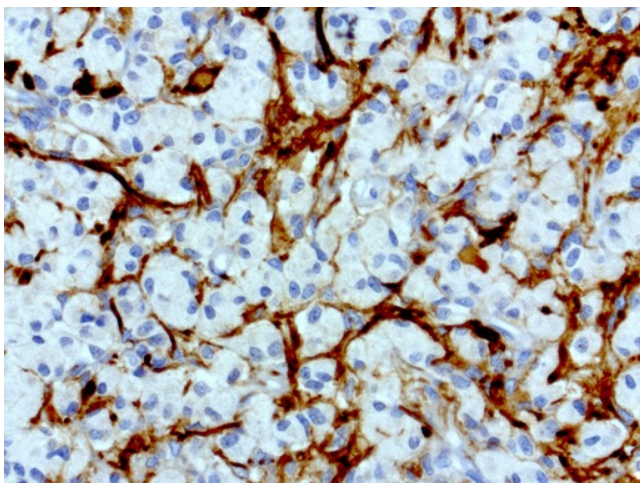
Immunohistochemical staining of paraffin-embedded human pancreas using anti-L1CAM clone UMAB47 mouse monoclonal antibody at 1:200 with Polink2 Broad HRP DAB detection kit (UM500043); heat-induced epitope retrieval with citrate buffer, pH6.0 at 95-100°C. Cytoplasmic and membraneous staining is seen in glandular cells.



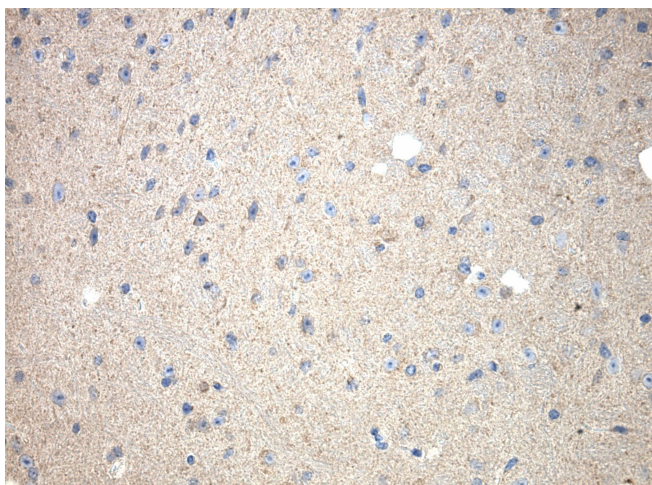
Immunohistochemical staining of paraffin-embedded human melanoma using anti-L1CAM clone UMAB47 mouse monoclonal antibody (UM500043) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI ACCEL HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic staining seen in staining in tumor cells.



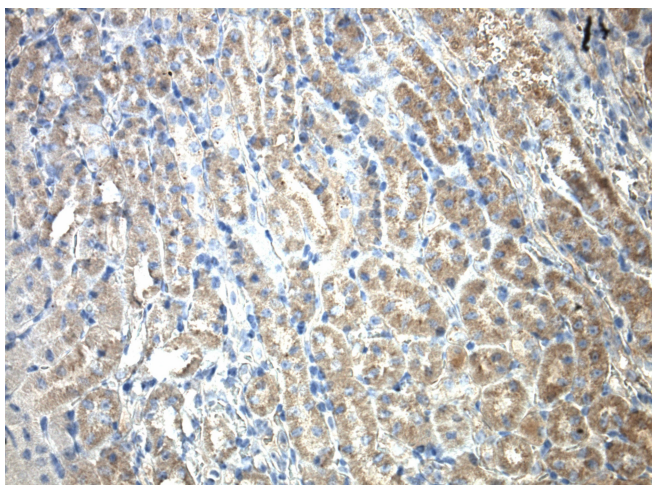
Immunohistochemical staining of paraffin-embedded human brain using anti-L1CAM clone UMAB47 mouse monoclonal antibody (UM500043) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI ACCEL HIER buffer using pressure chamber for 3 minutes at 110C. Cytoplasmic and membranous staining seen in staining in granular layer and the molecular layer.



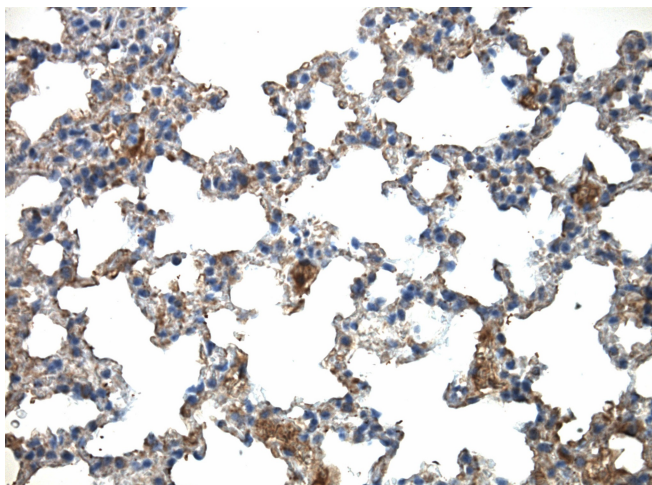
Immunohistochemical staining of paraffin-embedded human pituitary using anti-L1CAM clone UMAB47 mouse monoclonal antibody (UM500043) at 1:200 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with GBI ACCEL HIER buffer using pressure chamber for 3 minutes at 110C. Image shows only a subset of cells with positive cytoplasmic and membranous stain.



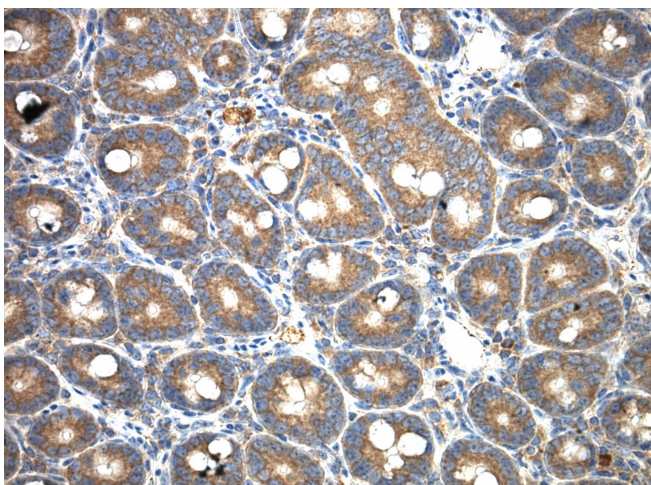
Immunohistochemical staining of paraffin-embedded mouse brain tissue using anti-L1CAM clone UMAB47 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500043 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



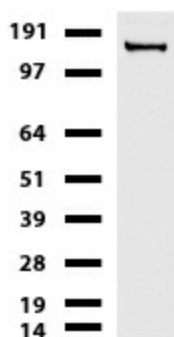
Immunohistochemical staining of paraffin-embedded mouse kidney tissue using anti-L1CAM clone UMAB47 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500043 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



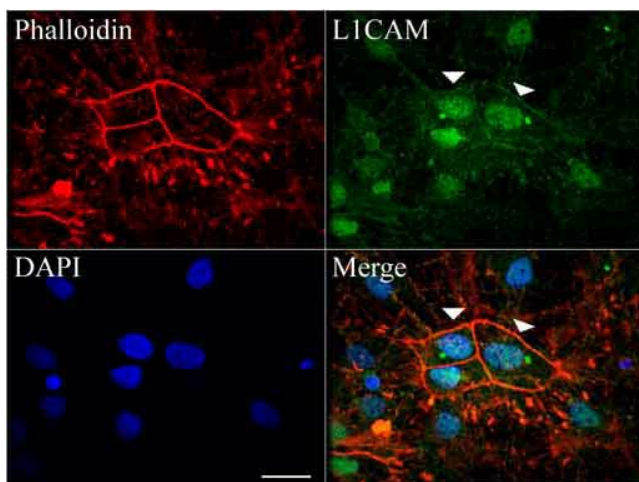
Immunohistochemical staining of paraffin-embedded mouse lung tissue using anti-L1CAM clone UMAB47 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500043 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



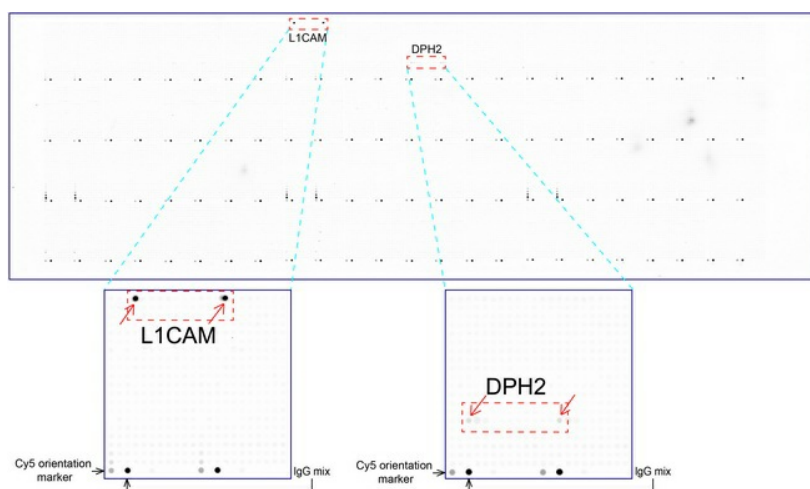
Immunohistochemical staining of paraffin-embedded mouse small intestine tissue using anti-L1CAM clone UMAB47 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, UM500043 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



Western blot of cell lysates (35ug) from HeLa. Dilution: 1:500



Confocal immunofluorescence image of primary rat neurons labeled with anti-L1CAM mouse monoclonal antibody (UM500043, green, 1:50). Actin filaments were labeled with TRITC-Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20µm.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-L1CAM mouse monoclonal antibody (UM500043). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.