

## Anti-L1CAM Antibody-PE (5I245)

## Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	PE
Clone:	5I245
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of Human CD171 expression in HeLa cells.
Application:	FCM
Recommended	5 µl/Test, 0.1 mg/ml

## Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human CD171 / N-CAML1 / L1CAM protein (TMPY-01431)
Antigen Species:	Human
Synonyms:	NCAM-L1;CD171;CAML1;SPG1;HSAS;L1 cell adhesion molecule;MASA;N-CAML1;HSAS1;N-CAM-L1;S10;MIC5

## Research Background

L1 cell adhesion molecule (L1CAM), also designated as CD171, is a cell adhesion receptor of the immunoglobulin superfamily, known for its roles in nerve cell function. While originally believed to be present only in brain cells, in recent years L1-CAM has been detected in other tissues, and a variety of cancer cells, including some common types of human cancer. L1CAM interacts with a variety of ligands including axonin-1, CD9, neurocan, and integrins, and it has been revealed that the RGD motif in the sixth Ig domain of L1CAM is a binding site for integrins, thus important for nuclear signaling. Disruption of L1CAM function causes three X-linked neurological syndromes, i.e. hydrocephalus, MASA syndrome (mental retardation, aphasia, shuffling gait, and adducted thumbs), and spastic paraplegia syndrome. Overexpression of L1CAM in normal and cancer cells increased motility, enhanced growth rate, and promoted cell transformation and tumorigenicity. Recent work has identified L1CAM (CD171) as a novel marker for human carcinoma progression, and a candidate for anti-cancer therapy.

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