

The immunoglobulin superfamily (IgSF) is a large [protein superfamily](#) of cell surface and soluble proteins that are involved in the recognition, binding, or adhesion processes of cells. Molecules are categorized as members of this superfamily based on shared structural features with immunoglobulins (also known as antibodies); they all possess a domain known as an immunoglobulin domain or fold. Members of the IgSF include cell surface antigen receptors, co-receptors and co-stimulatory molecules of the immune system, molecules involved in antigen presentation to lymphocytes, cell adhesion molecules, certain cytokine receptors and intracellular muscle proteins. They are commonly associated with roles in the immune system. The sperm-specific protein Izumo, a member of the immunoglobulin superfamily, has also been identified as the only sperm membrane protein essential for sperm-egg fusion.

IgLONs are members of the [immunoglobulin superfamily](#) of [cell adhesion proteins](#) implicated in the process of [neuronal outgrowth](#), [cell adhesion](#) and subdomain target recognition.

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