

Intermediate Structural Analysis C K Wang

Neurofilament light polypeptide polypeptide (NF-L) is a key structural component of the neuronal cytoskeleton, assembling into neurofilaments along with other intermediate filament proteins such as neurofilament heavy polypeptide and neurofilament medium polypeptide. Neurofilament light polypeptide is a protein that in humans is encoded by the NEFL gene.

Neurofilament Together with microtubules (~25 nm) and microfilaments (7 nm), they form the neuronal cytoskeleton. Type III contains the proteins vimentin, desmin, peripherin and glial fibrillary acidic protein (GFAP). Types I and II are the keratins which are expressed in epithelia. Neurofilaments (NF) are classed as type IV intermediate filaments found in the cytoplasm of neurons. They are protein polymers measuring 10 nm in diameter and many micrometers in length. They are protein polymers measuring 10 nm in diameter. Neurofilaments (NF) are classed as type IV intermediate filaments found in the cytoplasm of neurons. They are believed to function primarily to provide structural support for axons and to regulate axon diameter, which influences nerve conduction velocity. The proteins that form neurofilaments are members of the intermediate filament protein family, which is divided into six types based on their gene organization and protein structure. Type I

The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratin and hair keratin. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. The type I cytokeratin genes are clustered in a region of chromosome 17q12-q21. Urm1 is characterized by a core β -grasp fold and an essential carboxy terminal glycine within a di-glycine motif. Urm1 is known to be conjugated to the peroxiredoxin Ahp1, ATPBD3, and CTU2 and human MOC53, through a mechanism involving the E1-like protein Uba4 via lysine residues. Similar to ubiquitination, urmylation requires a thioester intermediate and forms isopeptide bonds between Urm1 and its substrates. Moreover, the urmylation process can be significantly...

Intermediate filament Intermediate filaments (IFs) are cytoskeletal structural components found in the cells of vertebrates, and many invertebrates. Homologues of the IF protein Intermediate filaments (IFs) are cytoskeletal structural components found in the cells of vertebrates, and many invertebrates. Homologues of the IF protein have been noted in an invertebrate, the cephalochordate Branchiostoma.

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KRT23 member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided. Keratin, type I cytoskeletal 23 is a protein that in humans is encoded by the KRT23 gene.

It transfers electrons between Complexes III (Coenzyme Q - Cyt c reductase) and IV (Cyt c oxidase). Cytochrome c is highly water-soluble, unlike other cytochromes. It is capable of undergoing oxidation and reduction as its iron atom converts between the ferrous and ferric forms, but does not bind oxygen. It also plays a major role in cell apoptosis. In humans, cytochrome c is encoded by the CYCS gene.

Nestin (protein) regulation of the assembly and disassembly of intermediate filaments, which, together with other structural proteins, participate in remodeling of the cell. Nestin is a protein that in humans is encoded by the NES gene.

URM1 Structural comparisons and phylogenetic analysis of the ubiquitin superfamily has indicated that Urm1 has the most conserved structural and sequence. Ubiquitin-related modifier-1 (URM1) is a ubiquitin-like protein that modifies proteins in the yeast ubiquitin-like urmylation pathway. Structural comparisons and phylogenetic analysis of the ubiquitin superfamily has indicated that Urm1 has the most conserved structural and sequence features of the common ancestor of the entire superfamily.

Intermediate filaments are composed of a family of related proteins sharing common structural and sequence features. Initially designated 'intermediate' because their average diameter (10 nm) is between those of narrower microfilaments (actin) and wider myosin filaments found in muscle cells, the diameter of intermediate filaments is now commonly compared to actin microfilaments (7 nm) and microtubules (25 nm). Animal intermediate filaments are subcategorized into six types based on similarities in amino acid sequence and protein structure. Most types are cytoplasmic... Nestin (acronym for neuroepithelial stem cell protein) is a type VI intermediate filament (IF) protein. These intermediate filament proteins are expressed mostly in nerve cells where they are implicated in the radial growth of the axon. Seven genes encode for the heavy (NF-H), medium (NF-M) and light neurofilament (NF-L) proteins, nestin and α -internexin in nerve cells,

synemin α and desmuslin/synemin β (two alternative transcripts of the DMN gene) in muscle cells, and syncoilin (also in muscle cells). Members of this group mostly preferentially coassemble as heteropolymers in tissues. Steinert et al. has shown that nestin forms homodimers and homotetramers but does not form IF by itself in vitro. In mixtures, nestin preferentially... 29f17b7d09

DYNLRB1 (2006). PMID 16950395. 085. Liu JF, Wang ZX, Wang XQ, et al. "Crystal structure of human dynein light chain Dnlc2A: structural insights into the interaction Dynein light chain roadblock-type 1 is a protein that in humans is encoded by the DYNLRB1 gene 29f17b7d09

This gene is a member of the roadblock dynein light chain family and encodes a cytoplasmic protein that is capable of binding intermediate chain proteins. Upregulation of this gene has been associated with hepatocellular carcinomas, suggesting that this gene may be involved in tumor progression. 29f17b7d09

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Cytochrome c bacterial cytochrome c functions as a nitrite reductase. Cytochrome c was also discovered in 1996 by Xiaodong Wang to have an intermediate role in apoptosis The cytochrome complex, or cyt c, is a small hemeprotein found loosely associated with the inner membrane of the mitochondrion, where it plays a critical role in cellular respiration 29f17b7d09

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