

CD147

The CD147 [protein](#) is a ubiquitous multifunctional [membrane receptor](#). Expression of CD147, which is regulated by sterol carrier protein, reportedly modulates [amyloid beta](#) (A β), the neurotoxic [peptide](#) implicated in neuronal degeneration in [Alzheimer disease](#) (AD).

In [glioma](#), [temozolomide resistance](#) is due to overexpression of CD147 protein and induction of [Nuclear factor-erythroid 2 related factor 2](#) ¹⁾

Findings reveal potentially important relationships between [cholesterol](#) loading, CD147 expression, A β toxicity, and the putative involvement of CYPA protein in neuroprotection in AD ²⁾.

¹⁾

Luo GQ, Bai S, Hu Y, Chen H, Yan ZJ, Fan LL. CD147 Protein Expression and Temozolomide Resistance in Glioma Cells: An Ex vivo and In vivo Study. Cell Mol Biol (Noisy-le-grand). 2022 Jul 31;68(7):160-164. doi: 10.14715/cmb/2022.68.7.26. PMID: 36495502.

²⁾

Kanyenda LJ, Verdile G, Martins R, Meloni BP, Chieng J, Mastaglia F, Laws SM, Anderton RS, Boulos S. Is cholesterol and amyloid- β stress induced CD147 expression a protective response? Evidence that extracellular cyclophilin a mediated neuroprotection is reliant on CD147. J Alzheimers Dis. 2014;39(3):545-56. doi: 10.3233/JAD-131442. PubMed PMID: 24217276.

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