

What is B7-H6?

B7-H6 is a ligand involved in the natural killer (NK) activation and immunosurveillance through its recognition by the receptor NKp30.

B7-H6 is widely expressed at the surface of different tumor cells but, unlike other members of the B7 family, is **absent from healthy tissues under steady state conditions**. In cancers, B7-H6 expression is associated with tumor progression, poor prognosis and lymph node metastasis.

Strategy Behind B7-H6

Like most NK receptors, NKp30 has both activating and inhibiting functions that allow to discriminate between healthy and ailing cells. Targeting B7-H6 has the advantage to promote only activating functions hence it may be used to recognize and kill tumor cells. A B7-H6 CAR T-cell strategy is therefore an attractive approach to target a broad range of cancers, including lymphoma, ovarian, gastric and breast cancers.

B7-H6 represents an **underestimated target** with great potential that could change the paradigm of the cell therapy field.

