

DUSP1

The [protein](#) encoded by this [gene](#) is a [phosphatase](#) with dual specificity for [tyrosine](#) and [threonine](#). The encoded protein can dephosphorylate [MAP](#) kinase [MAPK1/ERK2](#), which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy.

DUSP1 alleviates [cerebral ischemia reperfusion injury](#) via inactivating [JNK-Mff](#) pathways and repressing mitochondrial fission.

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Last update: **2024/06/07 02:50**

