PRDX1 (peroxiredoxin 1)

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Expression
Widely expressed, in particular in the various cell types of the central nervous system and in red blood cells; overexpressed following induction of proliferation and oxidative stress.

Localisation
Cytosolic.

Function
Antioxidant, against oxidative stress; Abl SH3-binding protein; inhibitor of c-Abl tyrosine kinase activity; also binds to heme.

Homology
Thioperoxiredoxines.

Implicated in
Disease
Correlations between the expression level and the stage of tumor progression in squamous cell carcinoma of the oral cavity; high expression in follicular thyroid tumors, but not in papillary carcinoma of the thyroid.

References


This article should be referenced as such: