

H29三朝(人形峠)シンポジウム発表題目

演題名(和文): 電離放射線照射後に出現する変様型RhoGDIbetaの機能解析とその被曝検査への応用
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発表者(和文): 藤原 守、土井 捺実、國松 優喜、藤裏 航平、達家 雅明

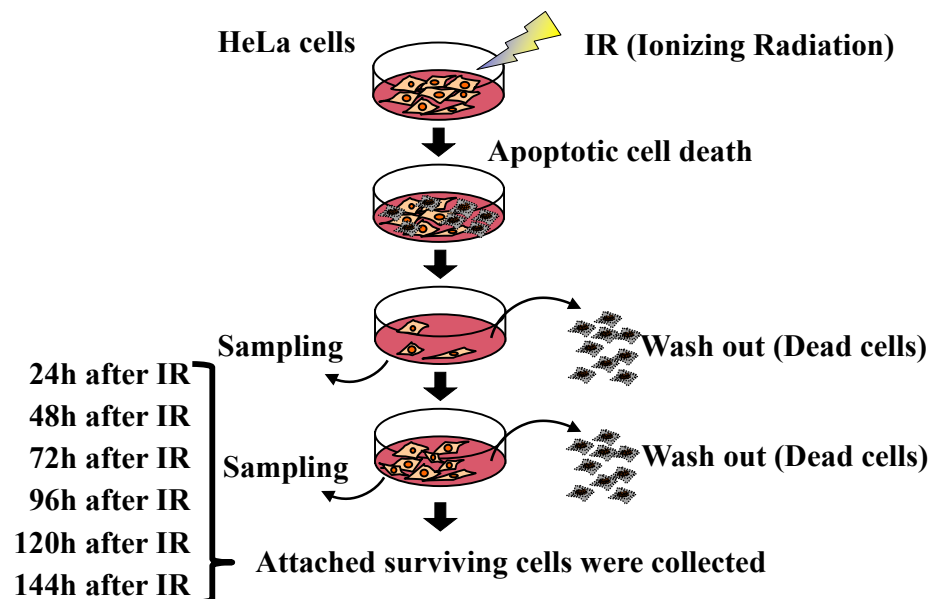
所属名(和文): 県立広島大学生命環境学部生命科学科ゲノム制御システム生物学研究室

演題名(英文): RhoGDIbeta lacking the N-terminal region: an ionizing radiation-induced intracellular signaling protein with potential applications for biodosimetry

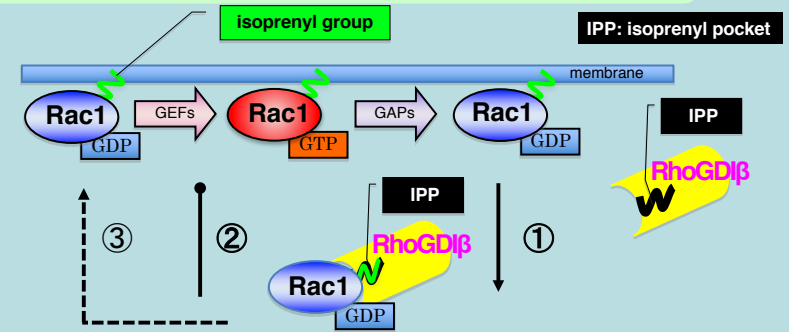
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RhoGDIβ cleavage in HeLa cells



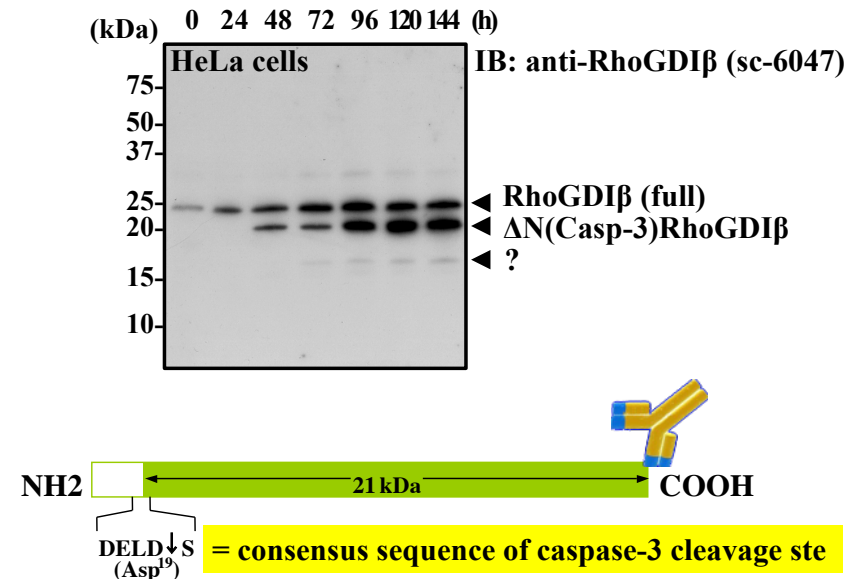
RhoGDIβ, its abundantly expressed in hematopoietic and epithelial tissues



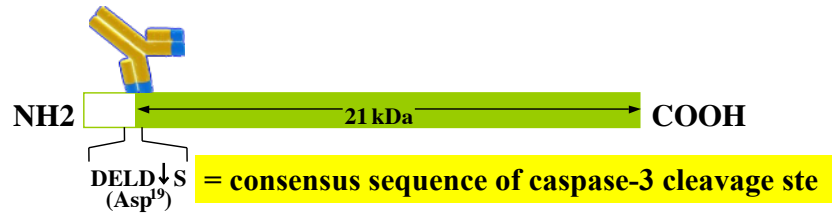
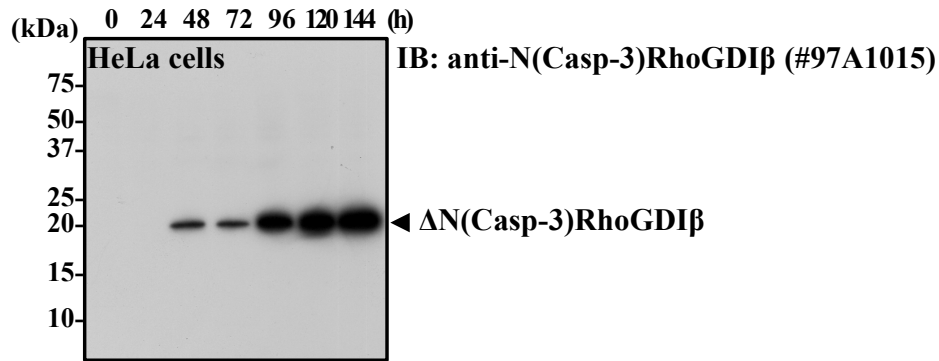
Rheostat functions of RhoGDIβ in Rho family signaling switches.

- ①Dissociation activity: RhoGDβ pull inactive GDP-Rho family proteins from the cell membrane.
- ②Inactivation activity: RhoGDIβ retain inactive GDP-Rho family proteins in the cytoplasm.
- ③Recruitment activity: RhoGDIβ recruits inactive GDP-Rho family proteins to be activated.

RhoGDIβ cleavage in HeLa cells



RhoGDIβ cleavage in HeLa cells



RhoGDIβ signal

