

# インターフェロンにより誘導されるIBPは IFITM1と結合し、特定のウイルス感染を抑制する

## Interferon-induced protein IBP interacts with IFITM1 and may prevent particular viral infection

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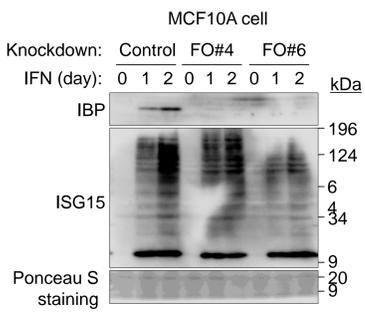
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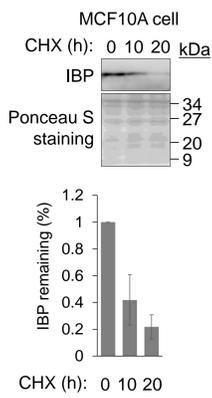
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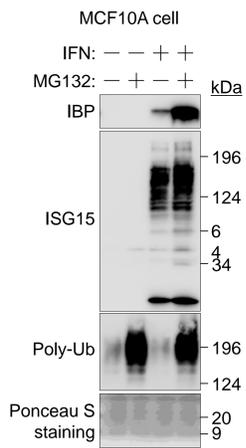
### ① Establishment of IBP knockdown cell lines



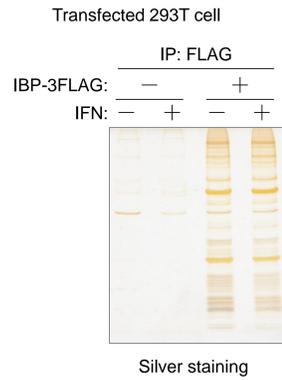
### ② IBP is unstable protein



### ③ IBP is degraded by proteasome



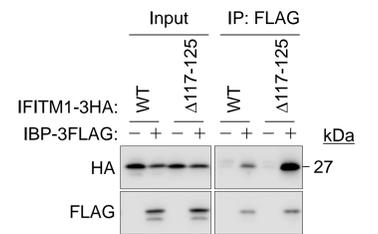
### ④ IBP-3FLAG-interacting proteins



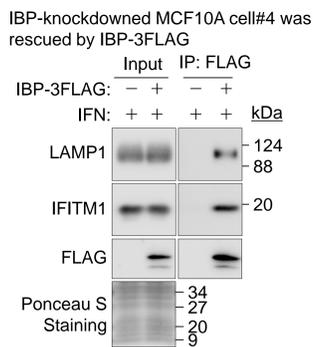
### ⑤ Amino acid sequence of IFITM1

1-MHKEEHEVAV LGPPPSTILP RSTVINIHSE-30  
31-TSVPDHVVWS LFNTLFLNWC CLGFIAFAYS-60  
61-VKSRDRKMGV DVTGAQAYAS TAKLNIWAL-90  
91-ILGILMTIGF ILLLVFSGVST VYHIMLQIIQ-120  
121-EKRGY

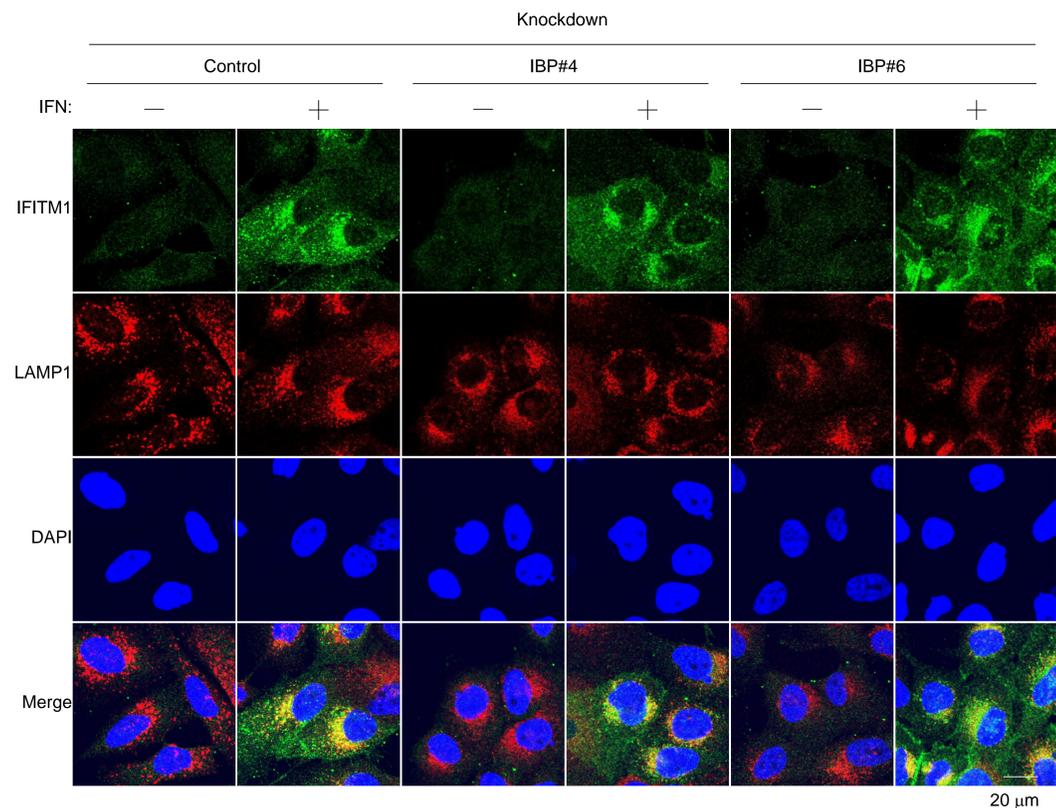
### ⑥ 1. IBP interacts with IFITM1 2. C-terminal deletion of IFITM1 enhances the interaction.



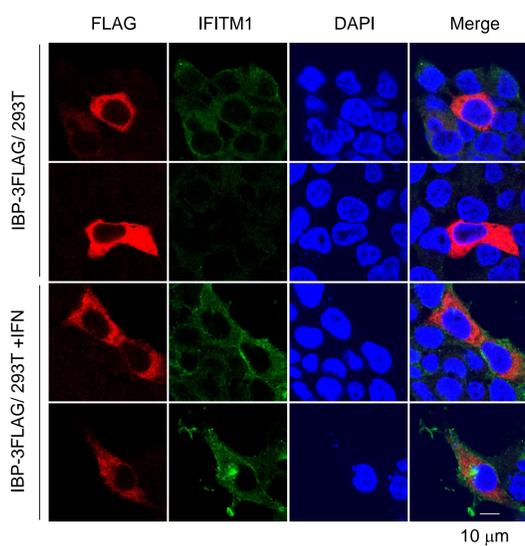
### ⑧ IBP-3FLAG interacts with endogenous LAMP1



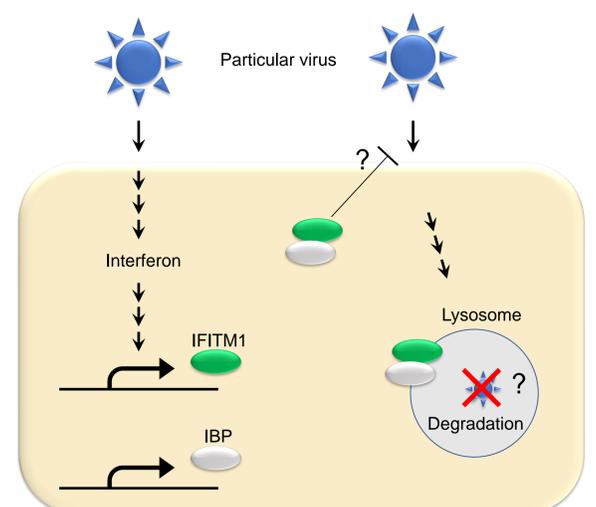
### ⑦ IBP knockdown does not affect the localization of IFITM1 to the lysosome



### ⑨ Cytosolic localization of overexpressed IBP-3FLAG



### ⑪ IBP may help IFITM1 to prevent viral infection



### ⑩ IBP reduces particular viral infection

