

Summary Data of Novel IR Responsive Proteins

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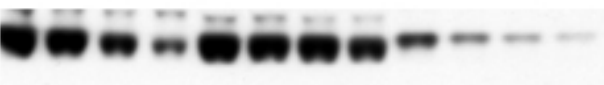
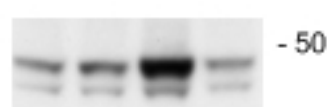

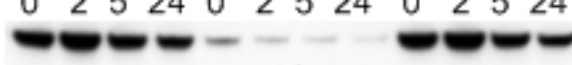
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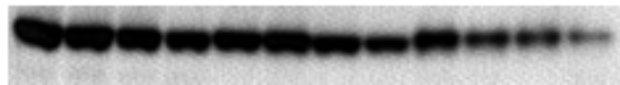
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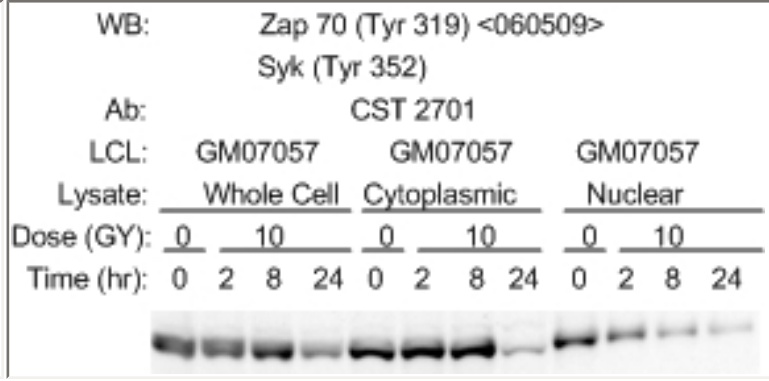
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Gene Symbol Protein Page Link	Protein Name Click on image to see all data for this protein
CASP7	Caspase-7
	<p>WB: Csp7_Asp198 <051108> Ab: CST 9491 LCL: GM07057 Lysate: Whole Cell Dose (GY): <u>0</u> <u>10</u> Time (Hr): 0 1 5 24 48</p> 
	<p>WB: CASP7 (p20) <080624> Ab: CST #9491 LCL: GM10833 Dose (Gy): <u>0</u> <u>10</u> Time (Hr): 0 2 5 12 24 48</p> 
CCNE2	G1/S-specific cyclin-E2
	<p>WB: Cyclin E2 (pan) <060111> Ab: Epitomics 1142-1 LCL: GM10832 GM10832 GM10832 Lysate: Nuclear Cytoplasmic Whole Cell Dose (GY): <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> Time (hr): 0 2 8 24 0 2 8 24 0 2 8 24</p>  <p style="text-align: right;">- 50 - 40</p>
EEF2K	Elongation factor 2 kinase

	<p>WB: eEF2k (pan) <060509> Ab: CST 3692 LCL: GM07057 Lysate: Whole Cell</p> <table border="1"> <tr> <td>Dose (GY):</td> <td>0</td> <td>10</td> </tr> <tr> <td>Time (hr):</td> <td>0 2 8 24</td> <td></td> </tr> </table> 	Dose (GY):	0	10	Time (hr):	0 2 8 24											
Dose (GY):	0	10															
Time (hr):	0 2 8 24																
<p>EIF2S1 [EIF2a]</p>	<p>Eukaryotic translation initiation factor 2 subunit 1</p>																
	<p>WB: eIF alpha2 (S51) <060508> Ab: CST 3597</p> <table border="1"> <tr> <td>LCL:</td> <td>GM07057</td> <td>GM07057</td> <td>GM07057</td> </tr> <tr> <td>Lysate:</td> <td>Whole Cell</td> <td>Cytoplasmic</td> <td>Nuclear</td> </tr> <tr> <td>Dose (GY):</td> <td>0 10</td> <td>0 10</td> <td>0 10</td> </tr> <tr> <td>Time (hr):</td> <td>0 2 8 24</td> <td>0 2 8 24</td> <td>0 2 8 24</td> </tr> </table> 	LCL:	GM07057	GM07057	GM07057	Lysate:	Whole Cell	Cytoplasmic	Nuclear	Dose (GY):	0 10	0 10	0 10	Time (hr):	0 2 8 24	0 2 8 24	0 2 8 24
LCL:	GM07057	GM07057	GM07057														
Lysate:	Whole Cell	Cytoplasmic	Nuclear														
Dose (GY):	0 10	0 10	0 10														
Time (hr):	0 2 8 24	0 2 8 24	0 2 8 24														
<p>GSK3A</p>	<p>Glycogen synthase kinase-3 alpha</p>																
	<p>WB: GSK3α (pS21) <070531> Ab: Rockland, 600-401-429 LCL: GM10833 Lysate: Whole Cell</p> <table border="1"> <tr> <td>Dose:</td> <td>0</td> <td>10</td> </tr> <tr> <td>Time:</td> <td>0 2 5 24</td> <td></td> </tr> </table> 	Dose:	0	10	Time:	0 2 5 24											
Dose:	0	10															
Time:	0 2 5 24																
	<p>WB: GKS3-alpha (pS21) <070606> Ab: Rockland, 600-401-429 LCL: GM10833 Lysate: Whole Cell</p> <table border="1"> <tr> <td>Dose:</td> <td>0</td> <td>10</td> </tr> <tr> <td>Time:</td> <td>0 2 5 24</td> <td></td> </tr> </table> 	Dose:	0	10	Time:	0 2 5 24											
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Time:	0 2 5 24																
<p>HSPB1</p>	<p>Heat shock protein beta-1</p>																
	<p>WB: α-p-Hsp27 (pS78) <071217> Ab: Epitomics 1543-1</p> <table border="1"> <tr> <td>Lysate:</td> <td>WCE</td> <td>Nuc</td> <td>Cyto</td> </tr> <tr> <td>Dose (Gy):</td> <td>0 10</td> <td>0 10</td> <td>0 10</td> </tr> <tr> <td>Time (Hr.):</td> <td>0 2 5 24</td> <td>0 2 5 24</td> <td>0 2 5 24</td> </tr> </table> 	Lysate:	WCE	Nuc	Cyto	Dose (Gy):	0 10	0 10	0 10	Time (Hr.):	0 2 5 24	0 2 5 24	0 2 5 24				
Lysate:	WCE	Nuc	Cyto														
Dose (Gy):	0 10	0 10	0 10														
Time (Hr.):	0 2 5 24	0 2 5 24	0 2 5 24														

	<p>WB: HSP27 (pS82) <080624> Ab: Epitomics #1118-1 LCL: GM10833 Dose (Gy): <u>0</u> <u>10</u> Time (Hr): <u>0</u> <u>2</u> <u>5</u> <u>12</u> <u>24</u> <u>48</u></p> 
IRAK4	<p>Interleukin-1 receptor-associated kinase 4</p>
	<p>WB: IRAK4 (pan) <060508> Ab: CST 4363 LCL: GM07057 Lysate: Nuclear Dose (GY): <u>0</u> <u>10</u> Time (hr): <u>0</u> <u>2</u> <u>8</u> <u>24</u></p> 
PHLDA3	<p>Pleckstrin homology-like domain family A member 3</p>
	<p>WB: α-PHLDA3 (pan) <061207> Ab: Novus NB100-1342 Cell Line: GM10860 Lysate: WC: #5 Time (Hr): <u>8</u> Dose (Gy): <u>0</u> <u>1</u> <u>3</u> <u>6</u> <u>9</u> <u>12</u></p> 
	<p>WB: α-PHLDA3 (pan) <061218> Ab: Novus, NB 100-1342 Time: 8 Hr. Post IR ATM: <u>+/+</u> <u>-/-</u> LCL: <u>32</u> <u>33</u> <u>19</u> <u>26</u> Dose (Gy): <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u></p> 
PLK1	<p>Serine/threonine-protein kinase PLK1</p>
	<p>WB: PLK1 (pan) <060511> Ab: Abnova H00005347-M01 LCL: GM07057 GM07057 GM07057 Lysate: Whole Cell Cytoplasmic Nuclear Dose (GY): <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> Time (hr): <u>0</u> <u>2</u> <u>8</u> <u>24</u> <u>0</u> <u>2</u> <u>8</u> <u>24</u> <u>0</u> <u>2</u> <u>8</u> <u>24</u></p> 

	<p>WB: α-PLK1 (pan) <070307> Ab: H00005347-M01 Abnova LCL: GM10832 (ATM +/+)</p> <p>Dose (Gy): 0 10</p> <p>Time (Hr.): 0 1 3 5 8 12 16 24</p> 
<p>SKP1</p>	<p>S-phase kinase-associated protein 1</p>
	<p>WB: Skp1 (pan) <060531> Ab: CST 2156 LCL: GM07057 GM07057 GM07057 Lysate: Whole Cell Cytoplasmic Nuclear</p> <p>Dose (GY): 0 10 0 10 0 10</p> <p>Time (hr): 0 2 8 24 0 2 8 24 0 2 8 24</p> 
<p>SMAD1/5/9</p>	<p>Mothers against decapentaplegic homolog 1/5/9</p>
	<p>WB: SMAD1/5/8 (S463/465/463/465/426/428) <060508> Ab: CST 9511 LCL: GM07057 GM07057 GM07057 Lysate: Whole Cell Cytoplasmic Nuclear</p> <p>Dose (GY): 0 10 0 10 0 10</p> <p>Time (hr): 0 2 8 24 0 2 8 24 0 2 8 24</p> 
	<p>WB: Smad/1/5/8 <080505> Ab: CST #9511 LCL: GM07057</p> <p>Time (Hr): 2 5</p> <p>Dose (10 Gy): - + + - + +</p> <p>λ-phosphatase: - - + - - +</p> 
<p>SYK / Zap70</p>	<p>Tyrosine-protein kinase SYK</p>



[TOP2A](#)

DNA topoisomerase 2-alpha

