

## Human Cancer Cell Selection Panel

### Application:

Human cancer cell selection panel serves for anti-cancer drug discovery. To evaluate the potential cytotoxicity and growth-inhibition effects of the test articles against multi-type tumors in a quick and efficient way. More than 60 human cancer cells can be screened by cell proliferation/cytotoxicity assay, covering Liver, Lung, Breast, Lymphoma, Colon, Melanoma, Leukemia, Myeloma tumors. After the in vitro screen, the most sensitive cancer cell lines can be selected for further tested in xenograft or orthotopic tumor models in mice or rats.

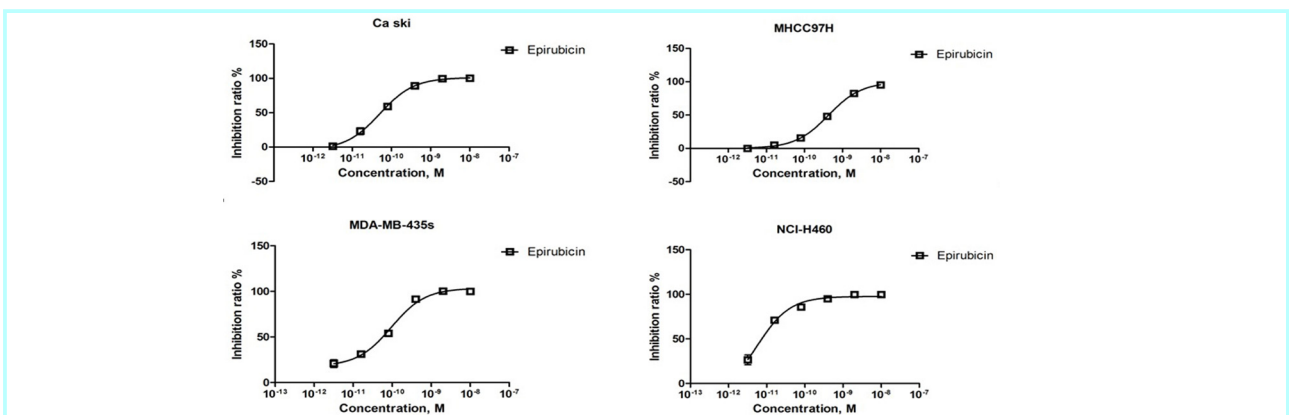
### Scopes:

- Screen 60s human cancer cells to find the target cancer cell lines for the test articles
- IC50s
- Compare the anti-cancer potency of a group of test articles
- Evaluate the combination anti-cancer effect of two different test articles
- Custom cancer cell lines

### Methods:

- CCK8 assay in suspension cells, and MTT or SRB assay in adhesion cells
- 96-well plate assays. Each test article will be tested in 6 concentrations, and each concentration will be tested in triplicates
- The assay will be independently repeated once

### Selected Results:



### Further in Vivo Study:

All 60s tumor cell lines can be further tested in s.c. xenograft models in mice or rats. Some of the cell lines have also been validated in orthotopic and metastatic models.

## Human Cancer Cell Lines List

Tumor Type	No.	Cell Line	Tumor Type	No.	Cell Line
Brain	1	U-87 MG	Lymphoma	39	Daudi
	2	IMR-32		40	RL
Cecum	3	NCI-H716		41	CA46
Cervix	4	Ca Ski	Mammary gland	42	MDA-MB-231
	5	HeLa		43	MDA-MB-435s
Colon	6	HCT 116		44	MCF7
	7	HT-29		45	BT-20
	8	COLO 205		46	SK-BR-3
	9	HCT-15		47	BT-474
Endometrium	10	HEC-1-B	Melanoma	48	A-375
Epidermoid Carcinoma	11	A431		49	HT-144
Fibrosarcoma	12	HT-1080		50	G-361
Gastric	13	NCI-N87	Myeloma	51	RPMI 8226
	14	AGS		52	U266B1
	15	MKN-45		53	ARH77
Kidney	16	A-704	Ovary	54	SK-OV-3
Leukemia	17	MV-4-11	Pancreas	55	BxPC-3
	18	HL-60		56	PANC-1
	19	K-562	Pharynx	57	FaDu
	20	KU812		58	PC-3
Liposarcoma	21	SW872	Prostate	59	DU 145
	22	Hep G2		60	22RV1
Liver	23	SK-HEP-1	Rectum	61	SW837
	24	HEP 3B	Rhabdomyosarcoma	62	SJCRH30
	25	SMMC-7721	Osteosarcoma, bone	63	MG-63
	26	BEL-7402		64	143B
	27	Huh7	T lymphoblast	65	MOLT-4
	28	HCC-LM3	Urinary bladder	66	5637
	29	MHCC97L		More cell lines are available upon request.	
	30	MHCC97H			
Lung	31	NCI-H460			
	32	A549			
	33	NCI-H526			
	34	SK-LU-1			
	35	DMS 79			
	36	HCC827			
	37	NCI-H1975			
	38	NCI-H446			

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