

LTL-437 datasheet

Origin	Primary human breast cancer	Histopathology	Invasive ductal carcinoma
Year of establishment	2012	Doubling time	12-14 days (subrenal capsule graft site)
Local invasion	Yes	Metastasis	Yes

The LTL-437 tumor tissue line (Fig. 1) was developed from a patient's primary breast cancer (invasive ductal carcinoma). The LTL-437 grows well subcutaneously or at the sub-renal capsule graft site. When grafted at the renal capsules site, the LTL-437 line shows local invasion to adjacent host kidney and metastases to distant organs of the hosts.

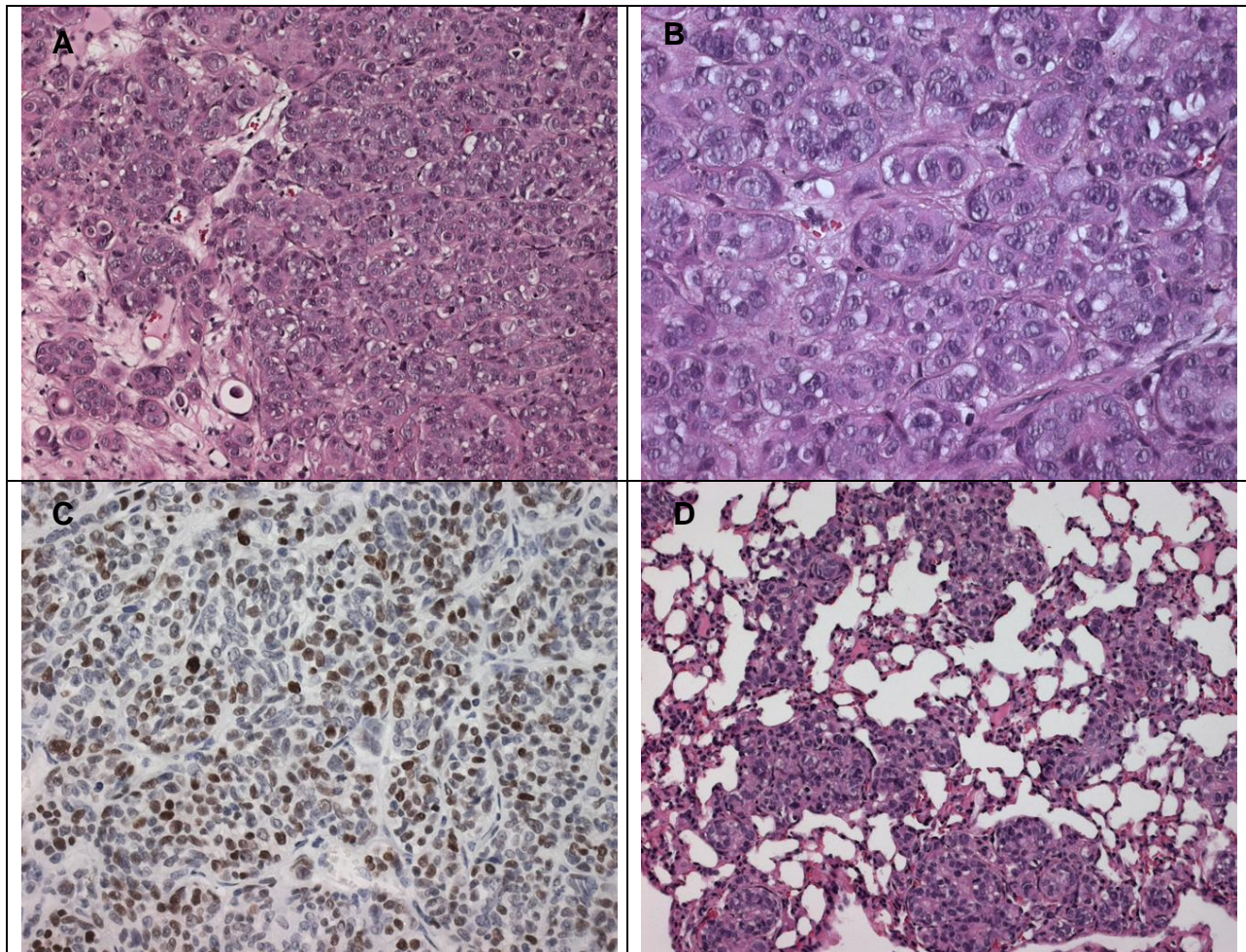


Fig 1. H&E stained LTL-437 tissue sections

(A), the tumor cells of LTL-437 grow in small nests or solid sheets. Tubular formations are absent. (200x) (B), at higher magnification, showing prominent nuclear pleomorphism. 400x (C), the tumor cells show strong immunostaining with antibodies to human-specific Estrogen Receptor. 200x. (D), lung metastases of LTL-437. 100x

Genetic and epigenetic characteristics

Tumor line tissue (in tissue microarrays) for IHC and ISH is in place for screening potential targets upon request.

Applications

1. Preclinical evaluation of established and potential anticancer drugs. Examination of drug efficacy on tumor growth, cell death (apoptosis, necrosis), tissue invasion, metastasis and angiogenesis.
2. Discovery of potential therapeutic targets and/or biomarkers for drug sensitivity.
3. Study of mechanisms underlying tumor growth, progression and metastasis.

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