

# PhenoPath

Diagnoses you can count on<sup>®</sup>

v. 02MAY2017

## Biomarker Testing for Checkpoint Inhibitors

	<b>KEYTRUDA<sup>®</sup></b> (pembrolizumab) anti-PD-1  <b>PD-L1 22C3</b> (tumor cells)	<b>OPDIVO<sup>®</sup></b> (nivolumab) anti-PD-1  <b>PD-L1 28-8</b> (tumor cells)	<b>TECENTRIQ<sup>®</sup></b> (atezolizumab) anti-PD-L1  <b>PD-L1 SP142</b> (immune cells / tumor cells)	<b>BAVENCIO<sup>®</sup></b> (avelumab) anti-PD-L1	<b>IMFINZI<sup>™</sup></b> (durvalumab) anti-PD-L1  <b>PD-L1 SP263</b> (immune cells / tumor cells)
Head & Neck Squamous Cell CA	FDA approved; no testing required	FDA approved; no testing required			
Hodgkin Lymphoma	FDA approved; no testing required	FDA approved; no testing required			
Melanoma	FDA approved; no testing required	FDA approved with <b>28-8<sup>†</sup></b> ≥1% TPS			
NSCLC 1st line	FDA approved with <b>22C3<sup>Δ</sup></b> ≥50% TPS				
NSCLC 2nd line	FDA approved with <b>22C3<sup>Δ</sup></b> ≥1% TPS	FDA approved with <b>28-8<sup>†</sup></b> ≥1% TPS	FDA approved with <b>SP142<sup>†</sup></b> ≥50% TC / ≥10% IC		
Renal Cell CA		FDA approved; no testing required			
Urothelial CA (bladder)		FDA approved; no testing required	FDA approved with <b>SP142<sup>†</sup></b> ≥5% IC		FDA approved with <b>SP263<sup>†</sup></b> ≥ 25% of TC exhibit membrane staining; or, ICP > 1% & IC+ ≥ 25%; or, ICP = 1% & IC+ = 100%
Merkel Cell Carcinoma				FDA approved; no testing required	

Δ = FDA approved companion diagnostic (required); † = FDA approved complementary diagnostic (optional)

TPS = Tumor proportion score; TC = tumor cells; IC = immune cells; ICP = immune cells present

PD-L1 testing available NOW at PhenoPath	<b>22C3</b> Dako Link 48	<b>28-8</b> Dako Link 48	<b>SP142</b> Ventana Ultra	<b>E1L3N</b> Generic
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**Specimen requirements:** FFPE block or 4 to 5 unstained slides cut at 4μm

**To submit a specimen:** Request supplies or use any requisition form at [www.phenopath.com](http://www.phenopath.com); indicate PD-L1 clone desired; ship FedEx standard overnight in secure shipping container (provided by PhenoPath upon request)

**Turnaround time:** 24-48 hours from receipt of specimen

**References:** [keytruda.com](http://keytruda.com), [opdivo.com](http://opdivo.com), [tecentriq.com](http://tecentriq.com), [bavencio.com](http://bavencio.com), [imfinzi.com](http://imfinzi.com), [dako.com](http://dako.com), [ventana.com](http://ventana.com), [fda.gov](http://fda.gov), [drugs.com](http://drugs.com)

**Disclaimer:** The content of this poster should not be relied upon as the sole source of information to guide specimen testing or patient treatment.